

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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No. 12] NEW DELHI, SATURDAY, MARCH 24, 1990 (CHAITRA 3, 1912)

इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 24th March 1990

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Patent Office Branch,  
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Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005

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Telegraphic address "PATENTOFIC".

1—507 GI/89

Patent Office Branch,  
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Madras-600 002

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Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :—**The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

## एकसू तथा अभिकल्प

कलकत्ता, दिनांक 24 मार्च 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा,  
टोडी इस्टेट,  
तीसरा तल, लोअर पररेल (पश्चिम),  
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र  
एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं  
दादरा और नगर हवेली ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश  
राज्य क्षेत्रों एवं संघ शासित क्षेत्र  
चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,  
61, बालाजह रोड,  
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तामिलनाडु राज्य क्षेत्र  
एवं संघ शासित क्षेत्र पाण्डिचेरी,  
लक्षद्वीप, मिनीकाय तथा  
एमिनिदिवी द्वीप ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,  
5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश ओस रोड,  
कलकत्ता-700 020.

भारत का अवशेष क्षेत्र ।

तार पता—“पेटेंट्स” ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में  
अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख  
पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए  
जायेंगे ।

शुल्क :—शुल्कों की अवधि या तो नकद की जायेगी अथवा  
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा  
ड्राफ्ट आदेश या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान  
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट  
अथवा चेक द्वारा की जा सकती है ।

## THE PATENT OFFICE

Calcutta, the 24th March 1990

APPLICATION FOR PATENTS FILED AT THE  
HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE  
ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates  
claimed Under Section 135, of the Patents Act, 1970.

The 12th February, 1990

131/Cal/90. Thomson Consumer Electronics, Inc. Parallel  
sound if with reference carrier derived from  
quasi-synchronous video detector.

132/Cal/90. SKF Textilmaschinen-Komponenten Gmbh.  
Drafting equipment for spinning frames with a  
double apron unit.

133/Cal/90. SKF Textilmaschinen-Komponenten Gmbh.  
Drafting apparatus for spinning frames.

134/Cal/90. Chugai Denki Kogyo Kabushiki-Kaisha. Ag-  
SnO electrical contact materials and manufactur-  
ing method thereof.

The 13th February, 1990

135/Cal/90. ICI India Limited. A process for the manu-  
facture of p-hydroxyphenylacetamide from p-  
hydroxyacetophenone.

136/Cal/90. Henri E. Rosen. Adjustable girth shoe con-  
struction.

The 14th February, 1990

137/Cal/90. Samsen Rohm. A character input/pointing and  
positioning device for use with a computer.

138/Cal/90. Golconda Engineering and mining Services  
Pty. Ltd. Clarification process.

(Convention date 16th February, 1989; No. PJ-  
2770; Australia).

139/Cal/90. MDT Corporation. Cover lens for light.

140/Cal/90. Siemens Aktiengesellschaft. Protective assem-  
bly for a distribution board in a telecommunica-  
tions system.

141/Cal/90. CIC Systems, Inc. Prepayment metering sys-  
tem using encoded purchase cards from multiple  
location.

142/Cal/90. R. K. S. (a French Body Corporate). Method  
and device for mounting a rotating part between  
two bearings without play.

143/Cal/90. Dermasciences Inc. Method of preparing a  
liquid composition for the treatment of open  
wounds in human skin.

(Convention date March 23, 1987; No. 532,691;  
Canada).

- 144/Cal/90. Dermascianees, Inc. Method of making a composition for moisturising, cleansing and conditioning human skin tissue and method of preparing same.  
(Convention date 23rd March, 1987; No. 532,691; Canada).

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI

The 22nd January, 1990

- 50/Del/90. Ramalingam Sivalingam, "Mini-cocker and griddle". (Convention date 24th January, 1989) (Canada).
- 51/Del/90. GKN Technology Ltd, "Spring assemblies". (Convention date 9th May, 1986) (U.K.). [Divisional date 5th May, 1987].
- 52/Del/90. Frank Wesley Moffett, "Growing medium for plants".  
[Divisional date 16th April, 1987].
- 53/Del/90. Laboratories Del Dr Esteve, S.A., "Benzimidazole-2-sulfonamide and imidazopyridine-2-sulfonamide derivatives and pharmaceutically acceptable salts".  
[Divisional date 9-4-1987].
- 54/Del/90. Morton Thiokol, Inc, "Water reducible polyester resin composition and method for preparing same".
- 55/Del/90. National Research Development Corporation, "Preparation of fibres for spinning". (Convention date 23-1-89) (U.K.).
- 56/Del/90. Europa Metalli-LMI S.p.A., "A process for the preparation of tubular ingot moulds intended for installations for the continuous casting of steel".

The 23rd January, 1990

- 57/Del/90. Carrier Corporation, "Horizontal scroll compressor".
- 58/Del/90. Advanced Brake & Clutch Co. Inc., "Method and apparatus for incorporating hydrodynamic film to transfer or retard motion and dissipate heat".
- 59/Del/90. Lipha, Lyonnaise Industrielle Pharmaceutique, "Processes of preparation of derivatives of benzocycloalkenyldihydroxyalkanoic acids, and of medications containing them".

The 24th January, 1990

- 60/Del/90. T. C. Jayaprakash, "A device for preventing unauthorised use of electric or electronic equipments".
- 61/Del/90. P. R. Gopalakrishnan, "An automatic stabilizer and starter for use with fluorescent tubes".

The 25th January, 1990

- 62/Del/90. Indian Mohan Lal, "Theory of numbers mathematics (ZERO)".
- 63/Del/90. UOP, "Selective hydrogenation process for improving the color stability of a hydrocarbon fraction".
- 64/Del/90. Masstech Scientific Pty. Ltd., "Improvements to load sensing apparatus". (Convention date 26th January, 1989) (Australia).
- 65/Del/90. Exxon Chemical Patents, Inc, "Method for the production of long chain hydrocarbyl substituted mono-or-dicarboxylic acid materials". (Convention date 7th February, 1989) (Canada).

- 66/Del/90. Stig Lundback, "A machine for transforming pressure or potential energy of a fluid into mechanical work".

- 67/Del/90. Riker Laboratories, Inc. "A process for preparing a flecainide acetate controlled release pharmaceutical formulation".

- 68/Del/90. Mattel, Inc, "Posable figure with continuous skin".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13

The 29th January, 1990

- 22/Bom/1990. Indian Oil Corporation Limited. A Kerosene Wick Lamp.

The 31st January, 1990

- 23/Bom/1990. Rueben Maller. Personal Load Carrying Means.

The 1st February, 1990

- 24/Bom/1990. Vivekanand Shripad Balsekar and Nandkumar Dattaram Heble. Sumitra Pot Chlorinator with variable dosing attachment.

The 5th February, 1990

- 25/Bom/1990. Bhide Vidyadhar Vasant. Float switch to work in any liquid media below 60°C.

The 6th February, 1990

- 26/Bom/1990. Konrad Doppelmayr & Sohn Maschinenfabrik Gesellschaft m.b.H. & Co. KG. Cable transport apparatus.

The 9th February, 1990

- 27/Bom/1990. Heman Yeshawant Tamhane. Improvement in or relating to spark plug of petrol engine to improve combustion at wide range of engine RPM to accomplish reduction in air pollution.

- 28/Bom/1990. Plastart Electronics Pvt. Ltd. A device to offer stabilized voltage with simultaneous amplification of TV signals received through built-in or outdoor antenna.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 5th February, 1990

- 91/Mas/90. I. M. Gopi or M. Gopinath. Eves Garlic and tamarind powder.

- 92/Mas/90. Hedley Purvis Limited. Hydraulic Torque Wrench. (February 7, 1989; United Kingdom).

- 93/Mas/90. Compagnie Generale Des Etablissements Michelin-Michelin & CIE. Tread for heavy-vehicle tire in which the central ribs are provided with inclined incisions.

The 6th February, 1990

- 94/Mas/90. K. Damodaran. Safe system for keeping gold jewels/ornaments-plain or with precious stones, silverwares and precious stones, without scratches or damages.

- 95/Mas/90. Mannesmann Aktiengesellschaft. Process and an apparatus for the vacuum processing of metals.

- 96/Mas/90. Uhde GmbH and Messer Griesheim GmbH. Process and device for separating a mixture of ingredient substances from the extracting agent.

97/Mas/90. Hitachi Zosen Corporation. A milling apparatus. (Divisional to Patent Application No. 428/Mas/86).

98/Mas/90. Periyasamy Kumar. An electronic automatic light sensitive dim-bright switch with overtaking indicator for automobiles.

99/Mas/90. H. J. Joseph. Arecanut Dehusking machine.

The 7th February, 1990

100/Mas/90. Himont Incorporated. Process for making propylene polymer with free-end long chain branching and use thereof.

101/Mas/90. Cabot Corporation. Method and apparatus for measuring the non-porous surface area of carbon black.

The 8th February, 1990

102/Mas/90. Kanniappan Pattu Gandhirajan. An improved catamaran.

103/Mas/90. Zellweger Uster AG. Static Electricity Motor.

104/Mas/90. A B Chance Company. ARC Spinner interrupter.

The 9th February, 1990

105/Mas/90. Ferruccio Canini. Device for hygienic protection for containers of drinks, edible, liquids and other products in general.

106/Mas/90. Huwood Limited. Conveyor. (February 10, 1989; United Kingdom).

#### ALTERATION

166167 Anti-dated 13th June, 1984.

(925/Del/86)

166179 Anti-dated 23rd October, 1982.

(742/Mas/85)

#### PRINTING SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted Specifications are available for sale from the Patent Office, Calcutta, and its branches at Bombay, Madras and Delhi at two rupees per copy :—

(1)

157308 157309 157310 157311 157312 157313 157314  
157315 157316 157317 157318 157319 157320 157321  
157322 157323 157324 157325 157326 157327 157328  
157329 157330 157331 157332 157333 157334 157335  
157336 157337 157338 157339 157340 157341 157342  
157343 157344 157345.

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137418 137421.

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137709 137712 137716.

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137724 137743 137744 137745 137746 137760 137769  
137770 137773.

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137827 137843 137849 137853.

#### PATENTS SEALED

163294 164022 164241 164790 164820 164831 164838  
164863 164867 164869 164870 164877 164891 164895  
164897 164904 164911 164913 164919 164921 164922  
164923 164928 164930 164947 164972 164986 165069

CAL - 17

DEL - 1

MAS - 3

BOM - 7.

#### RENEWAL FEES PAID

144971 145278 145834 146445 146601 146699 146819  
147362 147395 147449 147562 147657 147694 147695  
147735 148180 148808 148811 149034 149073 149086  
149098 149195 149208 149275 149536 149539 149690  
149736 149765 150260 150458 150493 150606 150737  
150796 151015 151030 151131 151258 151317 151322  
151514 151979 152017 152093 152156 152645 152818  
152835 153253 153347 153469 153582 153641 153701  
153857 153896 154102 154705 154768 154885 154976  
155462 155579 155749 155839 155922 156181 156197  
156262 156586 156618 156737 156722 156802 156917  
157022 157039 157219 157235 157272 157276 157282  
157285 157423 157434 157448 157686 157689 157770  
157859 157891 158029 158102 158128 158302 158361  
158636 158637 158745 158754 158758 158766 158778  
158779 158781 158787 158799 158800 158805 158830  
158980 158983 159000 159263 159266 159778 159786  
159941 159942 159943 159945 160028 160224 160611  
160713 160861 160862 160989 161066 161097 161100  
161103 161104 161105 161106 161107 161109 161178  
161316 161396 161610 162035 162182 162330 162407  
162422 162513 162652 162684 162708 162747 162781  
162862 162865 162922 162946 163113 163252 163373  
163493 163494 163511 163513 163520 163524 163616  
163618 163681 163687 163690 163726 163727 163762  
163861 163871 163876 163877 163878 163974 164061  
164067 164069 164083 164231 164233 164297 164351  
164352 164354 164358 164421 164428 164429 164447  
164509 164518 164691 164736 164762 164783 164811  
164814 164815 164816 164817 164818 164819 164833  
164835 164836 164854 164856 164857 164862 164865  
164866 164885 164887 164888 164893 164898 164910  
164985 164999.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

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Typed or photo copies of the specification together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी नियंत्रक, एक्सव को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप है।”

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियां, भारत सरकार ब्क डिपो, 8 किरण शंकर राम रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग-पत्र के साथ निम्नलिखित सूची में यथा प्रवर्णित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों; के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश के पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind CLASS : 6 B [XLVII(1)]

166151

Int. Cl. : E 05 B—61/00; F 17 C—1/00.

### A GAS PRESSURE REGULATOR WITH INTER-LOCKABLE LATCHING MEANS.

Applicants & Inventors : HARISCHANDRA KESARI-NATH MHATRE & KANCHAN HARISCHANDRA MHATRE.

Application No. 281/Bom/1986 filed October 9, 1986.

Complete after provisional left on September 16, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

### 6 Claims

A gas pressure regulator with inter-lockable latching means comprising :

a housing (1) having a socket (2) with a centrally located stub tube (13) carrying a plunger (15) and a pair of annular rubber bush seal (22) and an 'O' ring seal (14);

said 'O' ring seal (14) forming a guide-cum-seal for said plunger (15) working therewith in and said bush seal (22) forming a gas tight auxiliary seal on top end flange (10) of known gas flow discharge spout (3) under mechanical pressure exerted by pivotally mounted toggle hook pair (4-5) mounted within said socket (2) when slid over said flange (10) and dead locked thereto;

said toggle hook pair (4-5) being kept in normally closed position by a ring skirt (8) carrying a compression type coil spring (9) and said toggle hook pair (4-5) being expandable under slight lifting pressure on said ring skirt (8) to slide over and grip to dead lock said top flange (10);

said plunger (15) at its top end being provided with a groove 18 across its axis forming a seat for eccentric spindle (18) integral with inner end of gas flow controlling rotary shaft (17) working within bore (16) with its axis radial to said socket (2) thereby providing a positive linkage therebetween to open or close shut non-return valve pin (59) in gas flow discharge spout (3) when said gas flow controlling shaft (17) being rotated about its 180° axis from 90° to 180° and 'vice versa' and at the same time inter-lock said regulator when gas flow is in 'ON' position and wherein when said regulator is in gas flow 'OFF' position said regulator is detachable from discharge spout (3) of gas cylinder and the like and wherein outer end of said gas flow controlling shaft (17) is fitted with a knob (35).

Complete specification 16 pages

Drg. 2 sheets

Provisional specn. 13 pages

Drg. 2 sheets

Ind. CLASS : 199 XLI(9)

166152

Int. Cl. : G 01 F—23/02.

### IMPROVED MERCURY WATER LEVEL INDICATOR.

Applicant & Inventor : UMAKANT JAGANNATH MAHASHABDE, PLOT NO. 17, GANESH MALA PARVATI, VITHALWADI ROAD, PUNE-411 030, MAHARASHTRA, INDIA.

Application No. 325/Bom/1986 filed on 1st December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

### 1 Claim

Improved mercury water level indicator comprising mercury manometer having a mercury chamber and an adjacent manometer glass tube characterised in that the said mercury chamber is directly connected to the main reservoir of water with the help of around 15 mm G.I. pipe, the upper and blind end of the said mercury chamber there is provided an air-vent with a plug, the said mercury chamber being further provided with an "U" tube, which in turn is connected to a vertical manometer glass tube having internal diameter of 1 to 6 mm, the upper end of the said manometer glass tube is bent and connected to a mercury trap for collecting excess mercury which may occasionally spill over due to sudden pressure exerted on the surface of the mercury in the mercury chamber due to rising water in the reservoir, the said mercury trap is provided with a sliding

drain outlet which is angularly connected to the manometer glass tube such that the split over mercury in the trap would return to the manometer glass tube when the mercury column drops down below the point of angular connection of the drain outlet.

Compl. specn. 5 pages

Drg. 2 sheets

Ind. CLASS : 170A-XLIII (4),

166153

189-LXVI (9)

Int. Cl. : A61K—7/075.

AN AQUEOUS SHAMPOO.

Applicant: HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020.

Inventor : EVAN STUART REID.

Application No. 7/Bom/1987 filed on January 9, 1987.

U.K. Convention priority date January 9, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

### 13 Claims

An aqueous shampoo comprising, in addition to water :

- (a) from 2 to 40% by weight of detergent active compound such as herein described;
- (b) from 0.001 to 0.5% by weight of a polyacrylamide having a molecular weight of at least  $1 \times 10^5$ ;
- (c) from 0.05 to 2% by weight of a second polymer chosen from cationic polymers, nonionic polysaccharides and mixtures thereof; and optionally
- (d) from 0.1% to 3% by weight of a phosphate ester.

Compl. specn. 28 pages

Drg. 1 sheet

Int. CLASS : A 61 K—31/00, 31/18, 31/49

166154

A METHOD OF MAKING A NOVEL ANTIMALARIAL COMPOSITION.

Applicant : HOECHST INDIA LIMITED, OF HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventors : (1) DR. DEEPAK KUMAR CHATTERJEE, (2) DR. BINDUMADHAVAN VENUGOPALAN, (3) DR. BANSI LAL, (4) DR. NOEL JOHN DE SOUZA & (5) DR. RICHARD HELMUT RUPP.

Application No. 26/Bom/1987 filed on January 29, 1987.

Complete after provisional left on March 24, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

### 2 Claims

A method of making a novel antimalarial composition, said method comprises mixing at least one antimalarial compound from the group consisting of Artemisinin, Dihydroartemisinin, Arteether, Artemether and Artesunate and pharmaceutically acceptable salt(s) thereof in amounts less than the therapeutic dose and at least one antimalarial agent for the group consisting of Chloroquine, 10-O-methyl-floxacin, Quinine, Mefloquine, Amodiaquine, Pyrimethamine, Sulfadoxine and Primaquine and pharmaceutically acceptable salt(s) thereof in sub-curative doses in combination with or without pharmaceutically acceptable carrier(s) such as herein described.

Provisional specification 15 pages

Drg. Nil

Complete specn. 16 pages

Drg. Nil

Ind. CLASS : 208 [XLII(6)]

166155

Int. Cl. : B 43 K—24/12, 21/02.

DUAL REFILL-WRITING UTENSIL.

Applicants : KOTOBUKI & CO. LTD. 13, NISHI KURISU-CHO, SHICHIKU, KITA-KU KYOTO-SHI, KYOTO, JAPAN.

Inventors : MASUO KUBOTA, HIDEHEI KAGEYAMA, SABURO KOBAYASHI YOSHIHIDE MITSUYA and TADAYOSHI EBINUMA.

Application No. 31/Bom/1987 filed February 4, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

### 6 Claims

A dual refill-type writing utensil comprising :

a forward outer cylinder and a rearward outer cylinder which form an outer cylinder of the utensil;

a sheath detachably connected to a rear and portion of said forward outer cylinder and having a first and a second refills mounted axially and slidably in the utensil;

a first and a second sliders each of which is integrally connected to the rear ends of said first and second refills and inserted axially and slidably into said rearward outer cylinder; and

means at said rearward outer cylinder in which at least one of said first and second sliders is pressed against and engaged when one of said refills is projected, and said first refill and said second refill are alternately projected under rotation of said rearward outer cylinder;

said rearward outer cylinder and said sheath being rotatably engaged by an engaging shaft part formed at the rear part of said sheath;

characterised in that an engaging shaft portion is formed at the rear part of the said sheath and rotatably engaged with the rearward outer cylinder, cam surfaces are formed at said sliders and a cam engaging projection is formed at said rearward outer cylinder.

Compl. specn. 85 pages

Drg. 30 sheets

Ind. CLASS : 40 I[IV(1)] 126 A[LVIII(6)] 166156

Int. CLASS : C11D-1/83, 3/10, 3/12 166157

Int. Cl. : G 01 N 27/00, 27/62.

AN APPARATUS FOR DETECTING VERY SMALL CONCENTRATIONS OF GASES OR VAPORS IN A GAS MIXTURE.

Applicants : HONEYWELL-ELAC-NAUTIK GmbH, OF WESTRING 425-429, D-2300 KIEL 1, WEST GERMANY.

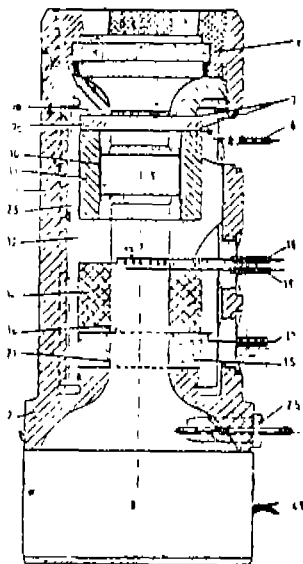
Inventors : (1) DR. KARL-ERNST BIEHL, (2) DR. EGON TYSEN, (3) CONRAD GRAF VON ROEDER.

Application No. 36/Bom/1987 filed February 6, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 8 Claims

An apparatus for detecting very small concentrations of gases in a gas mixture passed as a gasstream through a measuring cell comprising a chamber through which gas stream flows, a drift zone provided between an inlet<sup>5</sup> and an outlet<sup>2</sup> of the said chamber, a gas stream ionizing radiation source<sup>10</sup> located at the inlet of the drift zone, a collector electrode<sup>18</sup> located at the outlet of the drift zone, a grid<sup>17</sup> consisting of two groups of parallel wires located in the drift zone, including the steps of inducing the movement of the ions through the drift zone by a mechanical gas flow producing ventilator or like means<sup>3</sup> which produces a controlled gas flow to the collector electrode, a square wave generator means for supplying adjacent grid wires at 18, 19 with different AC voltages of adjustable frequency, and a frequency control circuit for periodically changing the frequency of the AC voltage applied to the groups of the said grid wires, and an amplifier, A/D converter, microprocessor for simultaneously measuring the collector current dependent on the grid voltage frequency digitizing and storing the measured collector current in a memory as a function of the frequency, storing in a further memory a table of collector current/frequency curves for different gases, comparing the measured curves with the stored curves and producing an indication signal characterising the gas corresponding to the particular stored curve upon the detection of an identity between a measured curve and a stored curve.



Compl. specn. 17 pages

Drg. 4 sheets

## DETERGENT COMPOSITION.

Applicant : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : IAN ERIC NIVEN.

Application No. 43/Bom/1987 filed on February 13, 1987.

U.K. Convention priority date February 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 7 Claims

A detergent composition containing :

(i) 5 to 40% by weight of a detergent active system comprising a mixture of -

(a) an anionic non-soap detergent active;

(b) a nonionic detergent active; and

(c) soap;

(ii) 5 to 75% by weight of a water-soluble alkali metal carbonate; and

(iii) 5 to 60% by weight of a water-insoluble particulate carbonate material which is a seed crystal for calcium carbonate;

wherein based on the total weight of components (a), (b) and (c) the level of (a) is from 48% to 70%, the level of (b) is from 20% to 27% and the level of (c) is at least 10%;

and wherein based on the total weight of the composition the level of component (c) is no more than 10%.

Compl. specn. 20 pages

Drg. Nil

Ind. CLASS : 48A<sub>2</sub> + A<sub>2</sub>[LVIII(3)], 172D<sub>6</sub>[XX]; 166158  
162[LXIV(7)]

Int. Cl. : B21F 7/00, D07B -3/00, 1/00.

AN APPARATUS TO FORM A PRODUCT SUCH AS CABLE BY ALTERNATE REVERSE TWISTING METHOD.

Applicants : OY NOKIA AB, MIKKONKATU 15, SF-00100 HELSINKI, FINLAND.

Inventors : (1) KARHU RAIMO KALERVO.

Application No. 115/Bom/1987 filed March 31, 1987.

Post dated to April 1, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 6 Claims

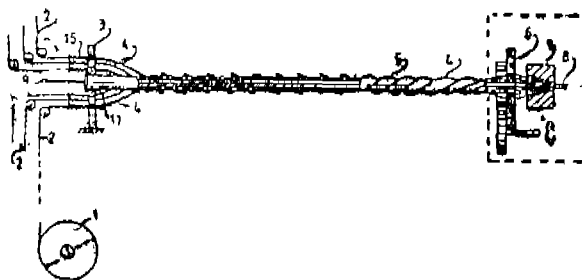
An apparatus to form a product such as cable by alternate reverse twisting method comprising of :-

a. dividing means, i.e. a fixed perforated holeplate (3) at the input end of the elements to be treated i.e. SZ-twisted peripheral wires (2) and central core element (9);

an opposite direction periodically rotating twisting means i.e. a perforated holeplate (6) at the output end of the treated elements SZ twisted peripheral wires (2) and central core element (9);

a guide and support means for the said core element (9) i.e. a central pipe (5) passing through the centre of the said dividing means and twisting means (3, 6);

a guide and support means for said peripheral element wires (2) i.e. peripheral pipes (4) between the said dividing means i.e. perforated holeplate (3) and the said twisting means i.e. perforated holeplate (6) passing radially around the said central pipe (5) and a pressing means (7) preferably a nipple, for pressing the said SZ-twisted peripheral wires (2) and central core (9) tightly against each other provided after the said twisting means (6) at the output end.



Compl. specn. 28 pages

Drg 1 sheet

Int. CLASS : A 63 F-9/12

166159

#### A TOY.

Applicant & Inventor : MEETHALE MADATHIL SASI, INDIAN NATIONAL, B-10/13, PATTAN CHAWL, HANUMAN NAGAR, KANDIVLI (EAST), BOMBAY-400 101, MHARASHTRA, INDIA.

Application No. 123/Bom/1987 filed on 8th April, 1987.

Complete after provisional left on 11th November, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

#### 4 Claims

A toy comprising :

a set of six square bars;

the first bar having at the middle of its one surface a groove to accommodate therewithin two such bars;

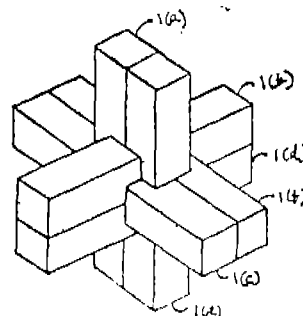
the second bar having at the middle of its one surface a first groove corresponding to the size of the groove of the said first bar, and a second groove at the adjacent surface and at the middle of the said first groove to accommodate therewithin one such bar;

the third bar near its one end provided with a groove at its one surface corresponding to the thickness of the grooved portions of the said bars;

a fourth bar having at its one surface a first groove to accommodate therewithin one such bar and a second groove at the adjacent surface starting at the middle of the said first groove and proceeding towards the opposite end to accommodate therewithin one such bar;

a fifth bar having at the middle of its one surface a groove to accommodate therewithin one such bar; and

a sixth bar having at the middle of its one surface a first groove corresponding to the size of the groove on the said first bar or the first groove of the said second bar, to accommodate therewithin two such bars and a second groove at the adjacent surface and at the middle of the said first groove to accommodate therewithin one such bar, the said bars are adapted to form at least eight elemental shapes of the toy by placing one such bar over the other such bars through the said grooves provided in the said bars and the said elemental shapes of the toy are locked or unlocked by arcuate rotation of the said second bar.



Provisional specn. 2 pages

Drg. 3 sheets

Compl. specn. 13 pages

Drg. 10 sheets

Int. CLASS : B02C-4/00, C13D-1/06

166160

#### AN IMPROVED SUGAR CANE MILL ROLLER.

Applicant : WALCHAND NAGAR INDUSTRIES LIMITED CONSTRUCTION HOUSE, WALCHAND HIRACHAND MARG, BOMBAY-400 038, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : KISHOR MAHADEO POLE BHAGAWAN SHANKAR DHAVALIKAR.

Application No. 126/Bom/87 filed April 10, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

#### 12 Claims

An improved sugar cane mill roller comprising :

a roller body having peripheral V grooves formed circumferentially thereon and an axial bore formed therethrough and mounted on a roller shaft through the axial bore thereof;

said roller body further having spaced apart straight channels provided through the entire length thereof and circumferentially spaced apart holes at the bottom of each of the V grooves;

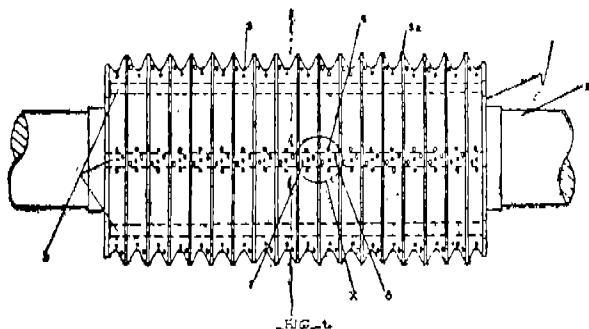
said holes originating from the bottom of the V grooves;

said holes originating from the bottom of the V grooves and terminating in said channels;

the ends of said channels being connected to a juice collection tank through vacuum tight coupling means mounted at the end(s) of said roller body;



said juice collection tank being provide with a vacuum pump and a juice pump each of said pumps being associated with a prime mover.



Compl. specn. 16 pages

Drg. 5 sheets

Ind. CLASS : 172 B

166161

Int. Cl.<sup>4</sup> : D 01 H 1/00.

METHOD OF PREPARING AND APPARATUS FOR ASSEMBLING FIBRES FOR SPINNING TO FORM A YARN.

Applicant & Inventor : ALAN NICHOLAS JACOBSEN, AN AUSTRALIAN CITIZEN OF 14 RAHEFN DRIVE, KEW, VICTORIA, AUSTRALIA.

Application for Patent No. 501/Del/86 filed on 5th June, 1986.

Convention date June 7th, 1985/PH 0954/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 19 Claims

A method of preparing fibres (1) for spinning to form a yarn comprising, maintaining an airstream in a converging passage (64) of annular cross-section travelling towards the smaller end thereof, said passage (64) being concentric to a longitudinal axis and having a coaxial assembly zone (67) at the smaller end, entraining fibres in said airstream to form a substantially uniform seriate fibre distribution within said annular passage (62) to pass therealong to the assembly zone (67) and so accelerate and straighten the individual fibres, delivering the fibres from said passage into the assembly zone (67) around the full periphery thereof to form a fibre assembly in said zone (67) which is coaxial with said longitudinal axis, and withdrawing said fibre assembly axially from said assembly zone in a continuous form.

Compl. specn. 21 pages

Drg. 3 sheets

Ind. CLASS : 152 E

166162

Int. Cl.<sup>4</sup> C09D 3/48.

Applicant : IMPERIAL CHEMICAL INDUSTRIES P.L.C., IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventor : ANDREW FRENGOU.

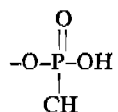
Application for Patent No. 520/Del/86 filed on 12 June, 1986.

Convention date June 19, 1985/8515564/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.  
2—517 GI/89

#### 11 Claims

An aqueous coating composition which comprises from 5 to 25% of a film forming polymer of the kind such as herein described and from 0.5 to 10% of a particulate metallic pigment of the kind such as herein described characterised in that the composition contains as corrosion inhibition agent for the pigment from 0.2% to 5% of a phosphatic material such as herein described containing at least one acidic hydroxyl group or a salt thereof linked to a phosphorous atom, said corrosion inhibition agent being a co-reaction product of (i) an addition polymer such as herein described carrying a functional hydroxyl group (ii) a monohydric alcohol or phenol and (iii) a compound containing in the molecule the grouping



and the balance being water.

Complete specification 27 pages.

Ind. Class : 60 D

166163

Int. Cl.<sup>4</sup> : A41D 11/00.

"A GARMENT".

Applicant & Inventor : FRANCOISE DOUEZ, a French citizen, of 1 rue du Surmelin, 75020 Paris, France.

Application for Patent No. 522/Del/86 filed on 12th June, 1986.

Appropriate office for Opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

#### (30 Claims)

A garment which can be put on a baby without having to slip the baby's head through a neck opening in said garment or slip the baby's arms through sleeves in said garment but which completely encloses the baby to keep it warm without he need for other garments within said garment; said garment comprising :

a single piece of material which before dressing the baby is a flat surface having projecting parts and a longitudinal axis (DD) characterized in that the piece of material when laid out flat is substantially in the shape of a cross, said cross having a first horizontal axis (AA) which intersect at a centre of said cross; said cross comprising four substantially quadrilateral forms; two of said forms projecting substantially horizontally (3+3bis, 4+4bis) and two of said forms extending substantially vertically (1+2, 5) from said centre of said cross; each of said forms having three sides free and a fourth side adjoining the remainder of said piece of material;

a first opening being provided about said centre of said cross; said first opening serving as said neck opening when the baby is within said garment;

a slit being provided in one of said vertically-projecting forms; said slit extending vertically from a horizontally extending free side of said one vertically-projecting to said first opening; said slit dividing said one vertically-projecting form into two adjacent form portions;

said piece of material being foldable about said first horizontal axis and about the baby to form each of a sleeve and to form said vertically-projecting forms into front and back portions of a sleeve and to form said vertically-projecting forms into front and back portions of said garment;

releasable fastener means being provided along two horizontally-extending free sides of each of said horizontally-projecting forms (11, 12, 13 and 14), for fastening said front and back portions of said sleeves

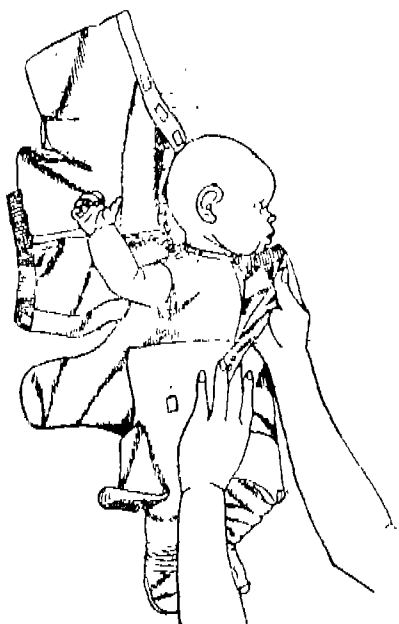
to one another along said horizontally-extending free sides to close said sleeves about the same of the baby when the baby is within said garment;

said garment also comprising: releasable fastener means (7, 8, 9 and 10) for fastening said front and back portions of said garment to one another to close said garment at its sides about the baby within said garment; and releasable fastener means (7bis and 9bis) for fastening said two adjacent front portions of said one vertically-projecting form to each other along said slit to close said slit with the baby within said garments; and

said garment further comprising a convex shape structure (11ter, 12ter, 13ter and 14ter) where one of the horizontally-extending free sides of each horizontally-projecting form intersects one of the vertically-extending free sides of one of the vertically-projecting forms; each of said convex shapes defining an enlargement of said material which can be introduced under an armpit of the baby to close further each of said sleeves about the baby;

the internal surface of the garment, directly in contact with the skin of the child having appropriate properties to be well tolerated by the child;

the garment comprising at least a layer of kind and of thickness such that the body of child is in the appropriate warmth.



(Complete Specification 47 pages Drawing Sheet 12)

Ind. Class : 148 H

166164

Int. Cl.<sup>4</sup> : G03G 15/00.

#### AN ELECTROPHOTOGRAPHIC DEVICE

Applicant : ENERGY CONVERSION DEVICES, INC. A CORPORATION OF THE STATE OF DELAWARE, OF 1675 WEST MAPLE ROAD, TROY, MICHIGAN 48064, UNITED STATES OF AMERICA.

Inventor(s) : ANNETTE JOHNCOCK & STEPHEN JENKING HUDGENTS.

Application for Patent No. 732/Del/86 Filed on 13th August, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

(Claims 14)

An electrophotographic device (10) of the type comprising :

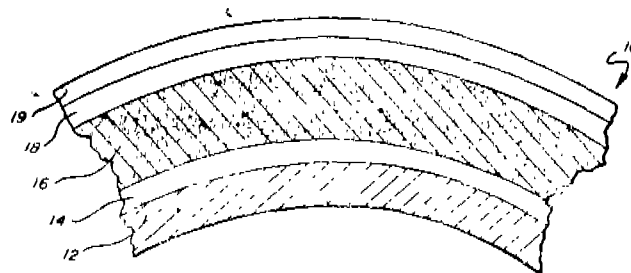
an electrically conductive substrate (12);

a bottom layer (14) overlying the substrate for blocking (12), the free flow of charge carriers from the substrate (12);

a photoconductive layer (16) overlying the bottom layer (14), for discharging an electrostatic charge; and

a top protective layer (19) for protecting the photoconductive layer (16) from ambient conditions, wherein the improvement comprises :

an enhancement layer (18) interposed between the photoconductive layer (16) and the top protective layer (19) for substantially reducing the number of charge carriers caught in deep mid-gap traps for preventing charge fatigue; said enhancement layer (18) being of semiconductor alloy material which is intentionally doped so as to avoid said deep trapping and prevent image flow.



(Complete Specification 32 pages Drawing Sheet 1).

Ind. Class : 1A.

166165

Int. Cl.<sup>4</sup> : C09J 7/00, 7/02.

#### "A CURABLE INSULATING TAPE COMPOSITION".

Applicant : UNIROYAL CHEMICAL INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW JERSEY, ONE OF THE UNITED STATES OF AMERICA, LOCATED AT WORLD HEADQUARTERS, MIDDELBURY, CONNECTICUT-06749 (U.S.A.).

Inventor(s) : F. C. CESARE, R. G. DAVIS & W. D. SIGWORTH

Application for Patent No. 734/Del/86 filed on 13th August, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972), Patent Office Branch, New Delhi-110005.

## 5 Claims

A curable insulating tape composition comprising :

(A) at least one polymer selected from the group consisting of ethylene/alphaolefin copolymer and ethylene/alphaolefin/nonconjugated polyene terpolymer, said polymer having a number average molecular weight of between 500 and 14,000;

(B) .5 to 5.0 parts by weight based on each 100 parts by weight of component (A) of curative of the kind as herein described having an activation temperature of at least 100°C;

(C) a filler of the kind as herein described and (d) 0.1 to 10 parts by weight, based on each 100 parts by weight of component (A) of a blowing agent of the kind as herein described having an activation temperature which is less than or about equal to the curing temperature of component (B).

(Complete Specification 25 pages)

CLASS : 181 XLV(6).

166166

Int. Cl. : F 16J 15/02, 15/18.

"A SEALING PACKER FOR DOWNHOLE PLACEMENT WITHIN A WELL CASING".

Applicant : ARROW OIL TOOLS INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATES OF DELAWARE, U.S.A., OF P. O. BOX 700450, TULSA, OKLAHOMA 74170, UNITED STATES OF AMERICA.

Inventors : TED GEORGE CLIFTON & ROBERT LYTLE BROOKEY.

Application for Patent No. 868/Del/86 filed on 1st October, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A sealing packer (10) for downhole placement within a well casing (144), said sealing packer comprising :

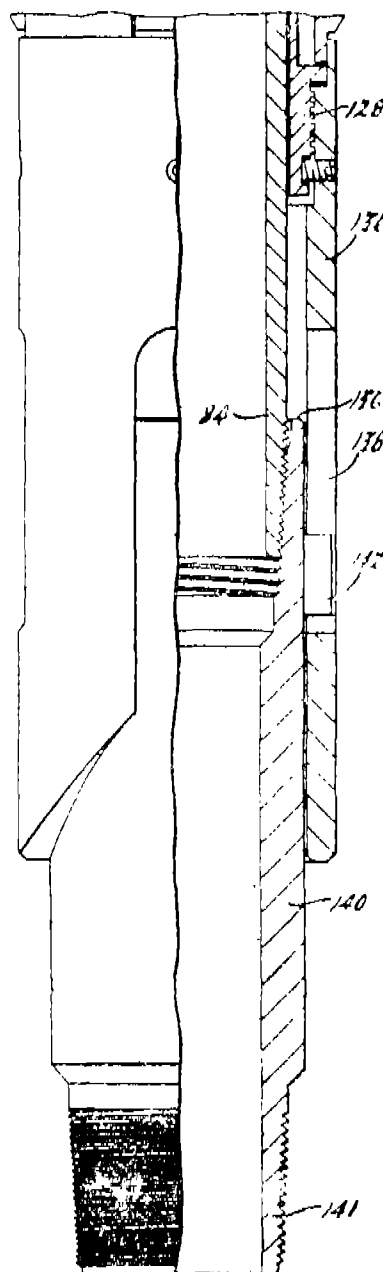
a tubular inner sleeve (12) with a central passage (14) there through;

an upper outer sleeve (16) assembly mounted about said inner sleeve and comprising a resiliently deformable upper packing (20a, b, c) element and a hold down means (18, 88, 92, 96) responsive to fluid pressure within said central passage for engaging the well casing and retaining said outer sleeve assembly stationary against upwardly directed well fluid pressure;

a lower outer sleeve assembly (22) co-axially mounted about said inner sleeve (12) and including a resiliently deformable lower (24a, b, c) packing element and a setting means (26, 126, 128, 130—132) located below said lower packing element for fixing said sealing packer to said well casing;

at least one port (58) extending from said central passage (14) to said well casing and located between said upper (24) lower packing (20) elements; and

a piston (106) assembly disposed between said packing elements (20, 24) to further deform said upper packing (26) element in response to fluid pressure in said central passage.



Compl. specn. 13 pages.

Dargs. 6 sheets

CLASS : 119 B

166167

Int. Cl. : D 03 J 1/00; D 03 D 45/00; B 65 H 51/16..

"WEFT YARN INSERTION APPARATUS FOR A FLUID WEAVING LOOM".

Applicant : SULZER BROTHERS LIMITED, A SWISS COMPANY OF CH-8401 WINTERTHUR, SWITZERLAND.

Inventor : JOHN DALTON GRIFFITH.

Application for Patent No. 925/Del/86 filed on 21st October, 1986.

Divisional to Application No. 485/Del/84 filed on 13th June, 1984.

Ante date to 13th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-5.

#### 4 Claims

A weft yarn insertion apparatus for a fluid weaving loom, said apparatus having a weft yarn metering device (196), a main nozzle (199) for inserting weft yarn into the warp shed, said nozzle (199) being supplied with conveying air for a predetermined time period to propel the weft yarn at a given speed, a pair of rollers (401) between said yarn metering device (196) and said main nozzle (199), said rollers (401) having a nip for positively feeding the weft yarn into said main nozzle (199), said nip being in alignment with said main nozzle (199) so that the rollers (401) propel the yarn from said metering device (196) through the nozzle (199) and into the shed, a weft yarn guide eye (415) mounted on a push rod (420) immediately adjacent the nip, the guide eye (415) being selectively movable between one position spaced from said nip so as to allow the weft yarn to be drawn through the nozzle (199) without engaging said rollers (401) and a second position adjacent the nip so as to introduce the weft yarn into the nip of said rollers (401) to cause the yarn to be propelled by the rollers (401) while under the control of said nozzle (199), drive means (406) for driving the nip rollers (401) so as to propel the weft yarn at a speed in excess of said given speed when said guide eye (415) is in said second position, and means (422, 423) for controlling said push rod (420) in said second position for a period of time less than said predetermined time period.

Compl. specn. 24 pages.

Drgs. 11 sheets

No. 925//OCI/86

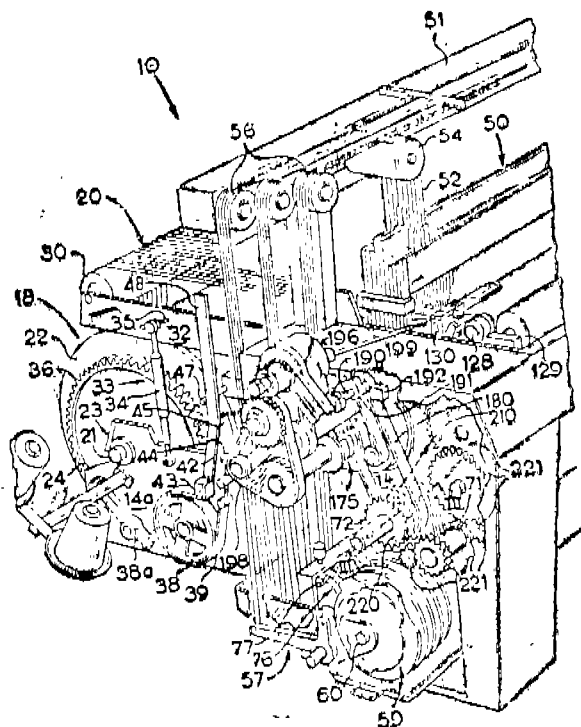


Fig. 1A

CLASS : 180.

166168

Int. Cl. : F 24 B 1/00.

#### "MULTIFUEL DOMESTIC CHULHA FOR EFFICIENT BURNING OF DIFFERENT TYPES OF SOLID FUELS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-1, INDIA AND INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : SURENDRA KHUNTIA & JOSYULA SAMBHA MURTY.

Application for Patent No. 971/Del/86 filed on 5th November, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972), Patent Office Branch, New Delhi-110005.

#### 3 Claims

A multifuel domestic chulha for efficient burning of different types of solid fuels which comprises a combustion chamber (1) having perforations in the walls at its top and provided with perforated corrugated grate (3a) supported on rod (3b) at its bottom, the chamber provided with a hollow truncated pyramidal flame holder and a vessel support at its top, the chamber being jacketted with its top closed and bottom open to enable air to pass, the outside surface of the chulha being insulated using insulating material, a fuel feed tunnel (6a) being provided at on one of the walls of the chamber together with a damper, the chulha being resting over an ash holder (4a) having a hole at its centre and provided with a damper (4b) for the flow of primary air to the chamber which in turn is supported over a stand.

Compl. specn. 15 pages.

Drg. 1 sheet

Ind. CLASS : 32 F<sub>a</sub> (b)

166169

Int. Cl.<sup>4</sup> : C07C 61/00.

#### "IMPROVED PROCESS FOR PREPARING 5-(2, 5-DIMETHYL-PHENOXY)-2, 2-DIMETHYLPENTANOIC ACID".

Applicant : WARNER-LAMBERT COMPANY, A DELAWARE CORPORATION 2800 PLYMOUTH ROAD, ANN ARBOR, MICHIGAN 48105, UNITED STATES OF AMERICA.

Inventor : FRANCIS REGIS KEARNEY.

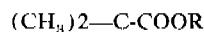
Application for Patent No. 1005/Del/86 filed on 18th November, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972), Patent Office Branch, New Delhi-110005.

#### 7 Claims

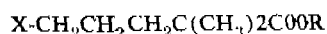
A process for preparing 5-(2, 5-dimethylphenoxy)-2, 2-dimethylpentanoic acid comprising the steps of :

- (a) reacting a lower alkyl ester comprising from one to four carbon atoms, of 2-methylpropanoic acid with an alkali metal salt of a di-(lower alkyl) amine in a polar aprotic organic solvent of the kind such as herein described to produce an alkali metal salt of formula I



wherein R is lower alkyl comprising from one to four carbon atoms and M is an alkali metal, and then with a 1, 3-dihalopropane selected from 1-bromo-3-chloropropane or 1, 3-dibromopropane at a

temperature between  $-20^{\circ}\text{C}$  and  $25^{\circ}\text{C}$  to produce an intermediate of the formula



where in X is chlorine or bromine and R is as defined above;

- (b) reacting said intermediate with an alkali metal salt of 2, 5-dimethylphenol in a mixed solvent system of a non-polar hydrocarbon solvent and a polar solvent of the kind such as herein described to produce 5-(2, 5-dimethylphenoxy)-2, 2-dimethylpentanoic acid in yields greater than 80% from said lower alkyl ester of 2-methylpropanoic acid.

(Complete Specification 14 pages)

Ind. CLASS : 9 D.

166170

Int. CL. : C25C 5/00.

AN IMPROVED SLURRY ELECTROLYTIC PROCESS FOR THE PRODUCTION OF HIGH PURITY IRON POWDER FROM SPONGE IRON FINES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RADHA RAMAN DASH AND SHYAM KISHORE SINGH.

Application for Patent office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An improved slurry process for the production of high purity at 99.8% iron powder from sponge iron fines at cell voltage  $-2.1$  to  $2.5$  v; current density  $2.70$  to  $50\text{ am/cm}^2$  in an electrolytic bath with or without brightening agent such as herein described, having a centrally placed iron anode and a cathode consisting of either stainless steel or commercially pure iron at a pH of 3.5, and a temperature in the range of  $50^{\circ}$  to  $70^{\circ}\text{C}$ .

(Complete Specn. 7 pages).

Int. CL. : C 06 C 15/00

166171

A PROCESS FOR MAKING STABILIZED AND DESSENSITIZED PULVERULENT FLOWABLE RED PHOSPHORUS.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) HORST STAENDEKE; (2) URSUS THUMMLER.

Application No. 685/Mas/85 filed September 2, 1985.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A process for making stabilized and desensitized pulverulent flowable red phosphorus, which comprises :

- (a) freeing, in a first processing stage, an aqueous suspension of red phosphorus with a particle size of  $0.0005$  to  $0.5$  mm from residual fractions of yellow phosphorus by boiling it in known manner with diluted sodium hydroxide solution while stirring.

- (b) stabilizing the red phosphorus in this aqueous suspension with aluminium hydroxide and adding as oxidationan aqueous or alcoholic solution, emulsion or dispersion of a liquid epoxide resin having a viscosity from  $1000$  to  $1400$  mPa.s at  $23^{\circ}\text{C}$  and hardenable with a hardener, soluble or emulsifiable in water, in a quantity of  $5$  to  $0.1$  mass parts oxidation stabilizer per  $95$  to  $99.9$  mass parts red phosphorus, the aluminium hydroxide fraction being present in a proportion of  $0.01$  to  $3$  mass % and the epoxide fraction being present in a proportion of  $0.09$  to  $4.99$  mass %, the percentages being in each case based on the quantity of red phosphorus; and stirring the mixture over a period of  $1$  to  $3$  hours at a temperature of  $20$  to  $90^{\circ}\text{C}$  for precipitating the aluminium hydroxide and simultaneously hardening the epoxide resin;

- (c) mixing the aqueous suspension of the oxidation stabilized red phosphorus for its desensitization with an aqueous emulsion of di-2-ethylhexylphthalate in a quantity from less than  $2$  to  $0.05$  mass parts per more than  $98$  to  $99.95$  mass parts stabilized red phosphorus, stirring the mixture at a pH-value between  $5$  and  $9$ , over a period of  $0.5$  to  $3$  hours at  $20$  to  $90^{\circ}\text{C}$ , and

- (d) filtering and drying the red phosphorus encapsulated at  $80$  to  $120^{\circ}\text{C}$ .

(Complete specn. 26 pages)

Int. CL. : G 01 P 3/00; 13/04.

166172

A POSITION SENIOR FOR DETECTING CHANCES IN THE RELATIVE POSITION OF TWO BODIES.

Applicant : ADRIAN MAROH LIMITED, OF 7, ARGYLE CLOSE, WHITEHILL, BORDON, HAMPSHIRE GU35 9PU, ENGLAND, A BRITISH COMPANY.

Inventor : ADRIAN ANTHONY CECIL MARCH.

Application No. 706/Mas/85 filed September 10, 1985.

Convention date : September 12, 1984; (No. 84.23086; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

13 Claims

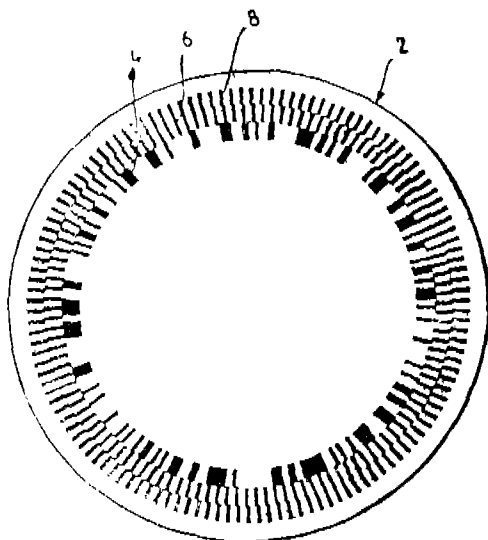
A position sensor for detecting changes in the relative position of two bodies comprising :

- a detector having a plurality of sensitive elements; a scale having at least one track of indicia with a non-repeating pattern, said at least one track having a predetermined shape, said scale being movable relative to said detector, said indicia of said at least one track acting on sensitive elements of at least a part of said detector, said at least a part of said detector having sensitive elements forming a track with a shape corresponding to said predetermined shape of said at least one track, and each of said sensitive elements

being operative to direct overlap of that sensitive element and at least one corresponding indicium of said indicia; and

means for simultaneously analyzing signals derived from each of said sensitive elements of said at least a part of said detector to determine the relative positions of said detector and said scale, and analyzing means including means for generating the sum of said signals derived from said sensitive elements, said signals derived from said sensitive elements to said analyzing means depending on said overlap for the corresponding sensitive element and a correlation weighting value associated with that sensitive element, said correlation weighting values being such that there is a relative

position of said scale and said detector for which said sum has a unique characteristic, said analyzing means also including means for determining from said sum the displacement of said scale relative to said scale relative to said detector from said relative position for which said sum has a unique characteristic.



Comp. specn. 28 pages.

Drgs. 6 sheets

Int. Cl.<sup>4</sup> : B 01 J 8/24; 8/26.

166173

#### METHOD AND APPARATUS FOR FLUIDIZED BED REDUCTION OF IRON ORE.

Applicant : KABUSHIKI KAISHA KOBE SEIKO SHO, ALSO KNOWN AS KOBE STEEL, LTD., OF 3-18 WAKINOHAMA-CHO, 1-CHOME, CHUO-KU, KOBE 651, JAPAN, A JAPANESE CORPORATION.

Inventors : (1) OSAMU SAEKI, (2) KENJI MORI, (3) MAMORU ONODA, (4) RYO WATANABE, (5) KATSUFUMI SHINOHARA, (6) TAKEHIKON ASHIE, (7) NOBUYUKI IMANISHI.

Application No. 707/Mas/85 filed September 10, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

#### 11 Claims

A method of reducing iron ore in a fluidized bed, comprising the step of :

- (a) pyrolysing coal in a first fluidized bed reactor at a temperature of 450°C to 700°C thereby producing char and a gaseous product which contains tar;
- (b) thermally cracking said gaseous product at a temperature of 450°C to 850°C in a second fluidized bed reactor which contains powdered iron ore, thereby depositing a carbonaceous material on the surface of the iron ore powder and producing a gas; and
- (c) reducing said coated iron ore powder at a temperature of 850°C to 1100°C in a third bed which is fluidized by a gas mixture composed of a gas generated in a gas generator said gas produced in the second, thermal cracking step.

Compl. specn. 16 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : C 08 G 8/04.

166174

#### A PROCESS FOR PREPARING RESIN BINDER FOR FOUNDRY, REFRACTORY AND MOLDS.

Applicant : ACME RESIN CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 1401, CIRCLE AVENUE, FOREST PARK, ILLINOIS 60130, U.S.A.

Inventors : (1) RAJA IYER, (2) RASIK C. SHAH, (3) ROBERT ANTON LAITAR.

Application No. 709/Mas/85 filed September 10, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

#### 5 Claims

A process for preparing a resin binder for refractories and foundry cores and molds which comprises heating a mixture of phenol and aqueous aldehyde wherein the molar ratio of aldehyde to phenol is from about 1.2 : 1 to about 2.2 : 1 with a primary or secondary aliphatic alcohol containing from 1 to 8 carbon atoms in the presence of a divalent metal ion catalyst until the mixture contains less than about 5% of unreacted aldehyde and the resin contains at least one alkoxymethyl group for every 20 phenolic nuclei, and has predominantly artho-ortho benzylic ether bridges joining the phenolic nuclei in the resin.

Compl. specn. 31 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 65 G 11/00.

166175

#### A TRANSPORT DUCT FOR FEEDING FIBRE FLOCKS TO DELIVERY CHUTES OF FLOCK PROCESSING EQUIPMENT.

Applicant : MASCHINENFABRIK RIETER AG., A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406, WINTERTHUR, SWITZERLAND.

Inventor : PAUL STAHELI.

Application No. 710/Mas/85 filed September 10, 1985.

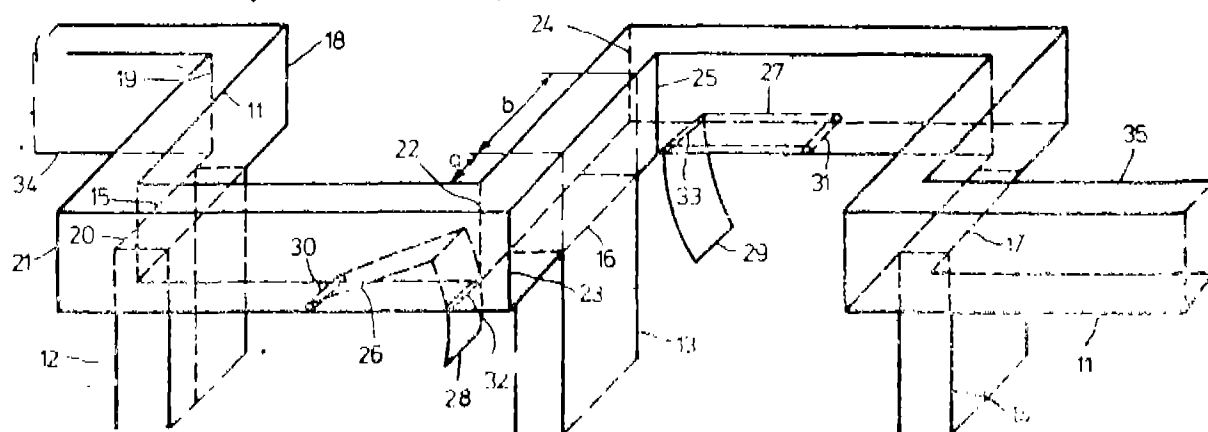
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

#### 15 Claims

A transport duct for fibre flocks, with substantially constant rectangular cross-section for feeding fibre flocks to delivery chutes being arranged along the transport duct along which a flock-transporting transport medium flows and which opens onto the chutes via rectangular openings corresponding substantially to the breadth of the duct, the openings being longer in the direction parallel to the flow direction of the medium than in the direction normal thereto, wherein at least for one delivery chute (12, 13, 14) the duct (11, 44) has an

abrupt change of direction of between 70 degrees and 110 degrees at a location immediately before the chute (12, 13,

14) considered with reference to the direction of flow of the medium.



Compl. specn. 19 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : H 05 B 3/12.

166176

# MODULAR ELECTRICAL HEATER AND A METHOD OF MAKING THE SAME.

Applicant : RAYCHEM CORPORATION, A COMPANY ORGANISED ACCORDING TO THE LAWS OF THE STATE OF CALIFORNIA, U.S.A., OF 300 CONSTITUTION DRIVE, MENLO PARK, CALIFORNIA 94025, U.S.A.

Inventor : WELLS WHITNEY.

Application No. 714/Mas/85 filed September 12, 1985.

Convention date : September 14, 1984; (No. 8423221; United Kingdom).

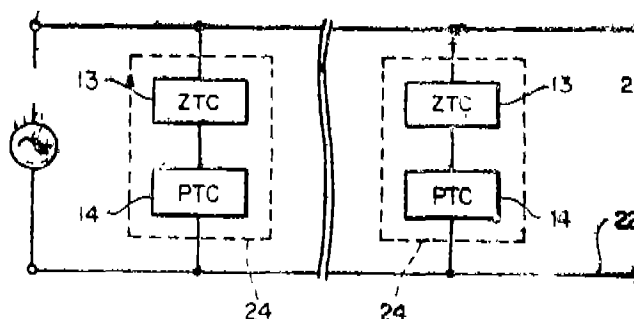
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

## 32 Claims

A heater comprising :

- (1) a pair of flexible elongate parallel conductors which are connectable to a power supply;
- (2) a plurality of rigid heating modules connected in parallel with each other between the conductors, each of said heating modules comprising :
  - (a) a rigid substrate; and
  - (b) a resistive heating component which has been deposited on the substrate and which generates heat when the conductors are connected to a suitable power supply;
  - (c) a temperature-responsive component which is thermally coupled to the heating component and which has an electrical property which varies so that, when the heater is connected to the power supply, the heat generated by the module decreases substantially as the temperature of the module approaches an elevated temperature, and

- (3) electrical leads which physically and electrically connect the modules to the elongate conductor.



Compl. specn. 17 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : H 01 B 7/28

166177

# A METHOD OF MANUFACTURING A WIRE ROPE AND A WIRE ROPE MANUFACTURED THEREBY.

Applicant : AMSTED INDUSTRIES INCORPORATED OF 3700 PRUDENTIAL PLAZA, CHICAGO, ILLINOIS 60601, U.S.A. A CORPORATION OF DELAWARE, U.S.A.

Inventor : PETER P. RIGGS.

Application No. 720/Mas/85 filed 16th September 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

## 9 Claims

A method of manufacturing a wire rope having a core strand and plurality of outer strands comprising :

the steps of coating at least the core strand with a lubricant blend consisting of a blend of amorphous polypropylene and a lubricant selected from conventional lubricants,

synthetic lubricants and powdered solid lubricants;

wiping the excess of the said lubricant blend from the outer surfaces of said core, winding said core and outer strands to form a wire rope;

heating the wire rope to a temperature of 38 to 148°C and extruding a known thermoplastic resin under pressure of 145 to 352 Kg/Cm<sup>2</sup> into the interstices between the core and the outer strands to encapsulate the core and if desired between the outer strands to encapsulate the outer strands.

Compl. specn. 9 pages.

Drg. 1 sheet

Int. Cl. 4 : D 01 H 1/12.

166178

# METHOD AND APPARATUS FOR JOINING THREAD FOR AN OPEN END FRICTION SPINNING HEAD.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, A GERMAN COMPANY, OF FRIEDRICH EBERT-STRASSE 84, 8070, INGOLSTADT, GERMANY.

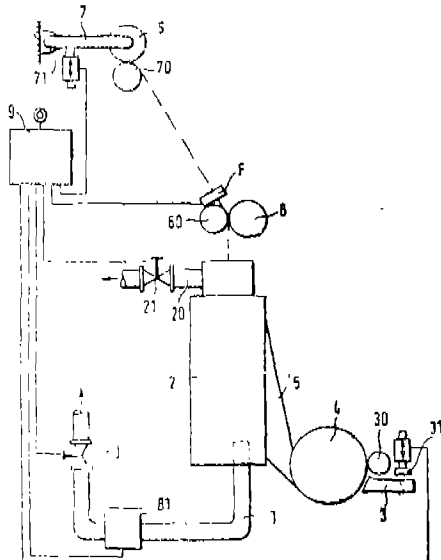
Inventors : (1) PETER ARTZT, (2) HANS ROTTMAYR, (3) GERHARD EGBERS.

Application No. 734/Mas/85 filed September 20, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

## 28 Claims

A method of joining thread for an open-end fraction spinning head, wherein the fibres supplied to a wedge-shaped gap are subjected to suction, the yarn which is formed in such gap is taken up therefrom and wound on a bobbin, the feeding of yarn into the gap is interrupted for joining and a yarn end which is taken up from the bobbin is guided towards the gap against the spinning direction, the friction elements are cleaned in a known manner before the laying out of the yarn end, the residual fibres which detach from them are sucked into the storage station and the yarn end is laid out in front of the gap and stored in a joinable length in a storage station at the gap end remote from the bobbin, whereafter the bobbin engages its driving roll and the yarn is taken up from the storage station and, after the passage of a predetermined time from the start of yarn take up, fibre feeding into the gap re-starts so that the infed fibres engage, and are twisted together with, the yarn end moving through the gap.



Compl. specn. 26 pages.

Drgs. 4 sheets

Int. Cl. 4 : F 27 B 17/00.

166179

# AN IMPROVED PROCESS FOR BAKING CARBON ANODES INTENDED FOR THE PRODUCTION OF ALUMINIUM BY FUSED ELECTROLYSIS.

Applicant : ALUMINIUM PECHINEY, A FRENCH COMPANY, OF 28, RUE DE BONNEL, 69003 LYON, FRANCE.

Inventor : JEAN-CLAUDE THOMAS.

Application No. 742/Mas/85 filed September 23, 1985.

Divisional to Patent No. 157081 (Ante-dated to October 23, 1982).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

## 3 Claims

An improved process for baking carbon anodes intended for the production of aluminium by fused electrolysis, in an open circulatory firing baking furnace comprising :

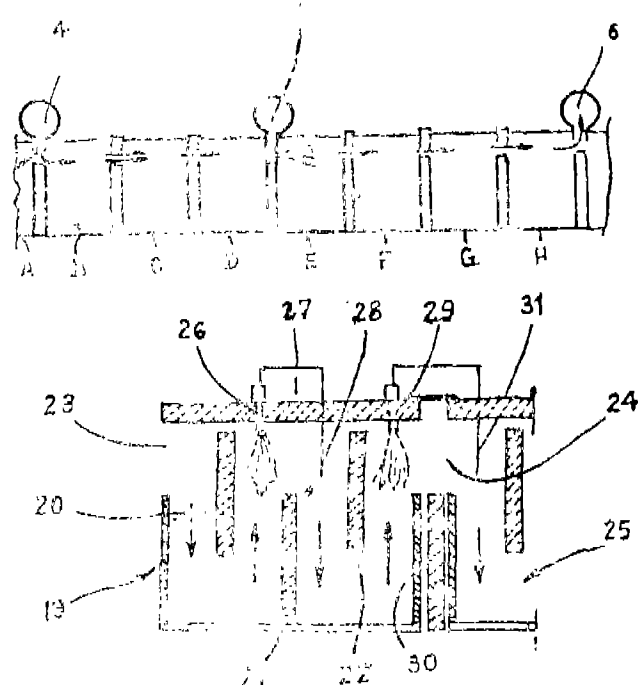
heating partitions provided in their upper part with injectors for supplying jet of fuel directed downwardly to meet a flow of combustion supporting gas;

said heating partition having a plurality of vertical baffles fixed alternately to the upper part and the lower part of the partitions;

in such a way that the flow of combustion-supporting gas which passes through the partitions circulate successively from the bottom upwardly and from the top downwardly;

the process being characterised in that, in order to reduce the length of the flame which is formed at the outlet of the injectors;

said injectors, for at least a part of the time for heating the partitions, are disposed above a region in which the flow of combustion-supporting gas is upwardly, in counter-flow relationship to the injected fuel and the flame.



Compl. specn. 19 pages.

Drgs. 2 sheets



Int. Cl.<sup>4</sup> : B 01 d 53/00.

166180

**PROCESS FOR THE RECOVERY OF H<sub>2</sub>S FROM GAS MIXTURE .**

Applicant & Inventor : SURENDRA KUMAR, OF 18 JOSIER STREET, DR. TIRUMURTI NAGAR, MADRAS-600 034, AN INDIAN NATIONAL, TAMIL NADU.

Application No. 826/Mas/85 filed October 18, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**4 Claims**

A process for obtaining hydrogen sulfide (H<sub>2</sub>S) from a gas mixture comprising the steps of passing the said gas mixture through an absorber column containing magnesia slurry maintained at a temperature range from 0°C to 60°C, recovering the absorbed hydrogen sulfide from the slurry by heating it to a temperature of from 55°C to 110°C.

Compl. specn. 5 pages.

Drgs. 2 sheets

Ind. CLASS : 32F<sub>1</sub>[IX(i)]

166181

Int. Cl. : C07C 31/34.

**AN IMPROVED PROCESS FOR PREPARATION OF 2-BROMO-1-PHENYL ETHANOL.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : SHAMRAO SHANKARRAO BHOSLE, MANDAKINI VISHVANATH NATEKAR, PADMAKAR LAXMAN JOSHI, KRISHNA NARYAN DIXIT, ARVIND SADASHIV VAIDYA & ALEVOOR SOMASEKAR RAO.

Application for Patent No. 187/Del/86 filed on 3rd March, 1986.

Complete specification left on 5th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**5 Claims**

An improved process for the preparation of 2-bromo-1-phenyl ethanol which comprises heating a mixture of styrene-dibromide, water and a water miscible solvent such as herein described at a temperature in the range of 40°-100°C and the 2-bromo-1-phenyl ethanol produced is separated by known methods.

Complete specification 7 pages.

Ind. CLASS : 53E

166182

Int. Cl.<sup>4</sup> : B62K 19/00.**A FRAME FOR A BICYCLE.**

Applicant & Inventor(s) : DONOVAN PILKINGTON, A SOUTH AFRICAN CITIZEN OF 2 ST. DAVID'S LANE, HOUGHTON 2196, JOHANNESBURG, TRANSVAAL PROVINCE, REPUBLIC OF SOUTH AFRICA AND ABEL OLWAGEN COETZEE, A SOUTH AFRICA CITIZEN OF PLOT 117, WITFONTEIN, PRETORIA NORTH 0116, REPUBLIC OF SOUTH AFRICA.

3—517 GI/89

Application for Patent No. 206/Del/86 filed on 6th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**7 Claims**

A bicycle frame comprising :

a single leaf spring set which is substantially rectilinear in its unloaded conditions;

a rear wheel mounting comprising a fork mounted to one end of the leaf spring set and adapted to locate the axle of a rear wheel;

a front wheel mounting comprising a transverse member mounted to the other end of the leaf spring set, and comprising a pivotally mounted fork adapted to locate the axle of a front wheel, the rear wheel mounting and front wheel mounting being connected solely by the leaf spring set, and a seat mouning and pedal mechanism fixed to the leaf spring set substantially in the centre of both the leaf spring set and the axle locations to provide a single pivotal position for the front and rear wheel mounting on loading of the bicycle frame.

Complete specn. 13 pages

Drg. 3 sheets

Ind. CLASS : 170 A

166183

Int. Cl.<sup>4</sup> : C11D 1/66.**STABLE SOIL RELEASE PROMOTING ENZYMATIC LIQUID DETERGENT COMPANY.**

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 300 PARK AVENUE, NEW YORK 10022, UNITED STATES OF AMERICA.

Inventor : MICHAEL C. CROSSIN.

Application for Patent No. 222/Del/86 filed on 10th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**9 Claims**

A stable soil release promoting enzymatic liquid detergent comprising from (10 to 22% wt.) of the composition, a nonionic detergent of kind such as herein described, a detergent supplementing and fluorescent brightener substantially increasing proportion of an anionic sulf (on)ated synthetic organic detergent, as herein described the amount of said anionic sulf (on) ated detergent being from (2 to 6% wt.), (0.05 to 0.5% by wt.) of a fluorescent brightener of the kind such as herein described, from (0.4 to 2% by wt.) of a soil release promoting polymer of polyethylene terephthalate and polyoxyethylene terephthalate from (0.02 to 0.1%) of enzyme of the kind such as herein described from (0.2 to 5% by wt.) of a stabilizer as herein described from the enzyme(s), and an aqueous medium as herein described having (on storage) PH in the range (6.2 to 7.0) and the viscosity in the range of (50 to 150) centipoises at 25°C and contrining no more than a total of 10% of water soluble ionizable salt material and no triethandamine.

Compl. specn. 40 pages

Drg. 1 sheet

Ind. CLASS : 69 B &amp; D

166184

Int. Cl.<sup>4</sup> : H04 B 3/00.

RELAY FOR DETERMINING WHETHER A SINGLE PHASE TO GROUND FAULT OCCURRING IN A POLYPHASE ELECTRIC POWER TRANSMISSION SYSTEM IS WITHIN A PREDETERMINED DISTANCE OF A MONITORING POINT.

Applicant : THE GENERAL ELECTRIC COMPANY, P.L.C., A BRITISH COMPANY, OF 1, STANHOPE GATE, LONDON W1A 1EH, ENGLAND.

Inventor : BENJAMIN RONALD JAMES CAUNCE.

Application for Patent No. 343/Del/86 filed on 17th April, 1986.

Convention date April 17, 1985/8509858 and August 27, 1985/8521306/(U.K.).

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A relay for determining whether a single phase to ground fault occurring in a polyphase electric power transmission system is within a predetermined distance of a monitoring point where the relay is located comprising

first comparator means having voltage and current transformers (3, 5) connected to replica and signal mixing circuits (7) and to at least one comparator unit (17, 18 or 19) for each phase of the system for detecting faults within a reach defined by a first guard zone quadrilateral characteristic (21, 23, 25, 27) with a reactance line;

(21) second comparator means having said at least one comparator unit (17, 18 or 19) and further comparators (43, 45, 47) connected to said voltage transformers (3, 5) and said replica and signal mixing circuit (7) in respect of each phase of the system for detecting faults within a reach defined by a second main quadrilateral characteristic (23, 25, 27, 49) with a reactance line (49) whose slope under two-phase to ground fault condition changes by a greater amount than the reactance line (21) of the corresponding guard zone characteristic; and

logic gate output means (29 to 41) connected with said first and second comparator means for indicating the presence of a fault on a single phase of the system to ground within the reach of the main characteristic relating to the relevant phase only if the corresponding guard zone characteristic, and no other, indicates a fault.

Complete specn. 15 pages

Drg. 4 sheets

Ind. CLASS : 195 EF

166185

Int. Cl.4 : B 29 D 3/00.

#### DIFFERENTIAL PRESSURE CONTROL VALVE.

Applicant : BANDAG LICENSING CORPORATION, AN IOWA CORPORATION, OF BANDAG CENTER, MUSCATINE, IOWA 52761, UNITED STATES OF AMERICA.

Inventor : DONALDEE BREWER.

Application for Patent No. 365/Del/86 filed on 24 April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

A differential pressure control valve (100) for the control of a fluid circuit pressure when the fluid passes through said valve, to give a predetermined pressure differential between the input pressure and output pressure of the fluid comprising:

a top cap member (102) of differential pressure control valve (100) with a low pressure chamber (133) in its lower side;

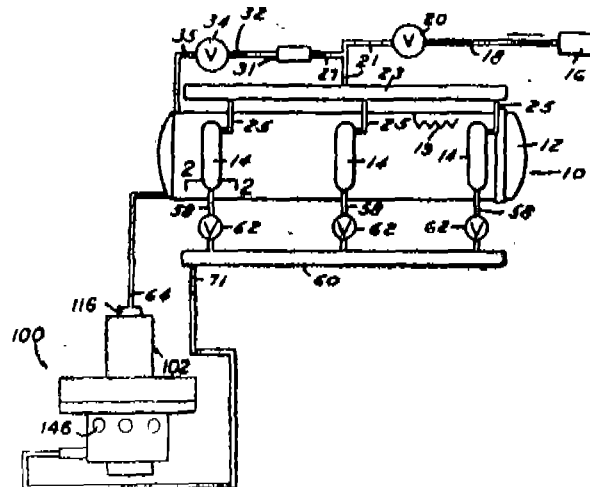
a bottom cap member (104) of differential pressure control valve (100) with a high pressure chamber (120) in its upper side;

a piston assembly (106) positioned in said low and high pressure chambers with a diaphragm member (112) that separates said chambers (120, 133);

The fluid enters said top cap (102) and is ported through port (118) to said high pressure chamber (120);

a delay pressurization means provided in control chamber (114) and through port (131) to said low pressure chamber (133);

said piston assembly (106) having a larger surface area in the low pressure chamber (133) than in the high pressure chamber (120).



Complete specn. 15 pages

Drg. 3 sheets

Ind. CLASS : 140 A<sub>2</sub>

166186

Int. Cl.4 : C10M 125.00.

LUBRICANT COMPOSITION CONTAINING ONE OR MORE METAL SALT CONTAINING A MIXTURE OF AROMATIC AND ALIPHATIC PHOSPHORODITHIOIC ACIDS.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO-44092 U.S.A., A CORPORATION OF THE STATE OF OHIO, U.S.A.

Inventor(s) : YODICE, RICHARD & ALAN CURTIS CLARK.

Application for Patent No. 393/Del/86 filed on 1st May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 10 Claims

A lubricant composition comprising :

one or more metal salts of a mixture of phosphorodithioic acids containing both an (H) aliphatic group and a (B) aromatic group, wherein said aromatic group is phenyl or a low hydrocarbyl arene as hereinafter described or an aromatic group having high hydrocarbyl substituents having an average of 4 to 18 carbon atoms or mixtures thereof;

said metal salts providing in said oil from 0.001 to 0.15 parts by wt of phosphorus, and the balance being a lubricating oil as herein described

Compl. specn. 56 pages

Drg. 1 sheet

Ind. CLASS : 23 A&amp;H

166187

Int. Cl.<sup>4</sup> : B65B 35/00.

A SUPPLY DEVICE FOR SUPPLYING FLATTENED BOXES TO A PACKING MACHINE.

Applicant : AZIONARIA COSTRUZIONI MACCHINE AUTOMATICHE-A.C.M.A.-S.P.A. OF VIA CRISTOFORO COLOMBO 1, 40131 BOLOGNA, ITALY AN ITALIAN COMPANY.

Inventor : FRANCO ODORICI.

Application for Patent No. 416/Del/86 filed on 7th May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 9 Claims

A supply device for supplying flattened boxes (1) to a packaging machine equipped so that it may be re-supplied with these boxes, comprising :

a magazine (2) for a line of boxes which is bounded at the front by a support face and comprises feed means (6) which supports the line of boxes, and which moves longitudinally relative to the magazine in cooperation with means of the packaging machine, a front carriage (13) and a rear carriage (14) mounted between two parallel beams (11, 12), to slide longitudinally relative to the magazine;

clamp means mounted on each carriage which may be respectively actuated to connect them to the feed means, wherein the clamp means of the front carriage is normally operative and the clamp means of the rear carriage is normally inoperative;

operating means disposed between the carriages (13, 14) which may be actuated so that the carriages slide in a longitudinal manner towards or away from one another, the operating means normally being inoperative and the carriages spaced from one another;

a main plate displaceably mounted on the front carriage which may be moved transversely between a first position in register with the line of boxes and a second remote position, the main plate (31) normally being in the first position and acting such that it forms a rear boundary for the line of boxes;

a secondary plate (32) mounted on the rear carriage so as to face the main plate (31), the secondary plate normally being remote from the main plate so as to define with the latter a space for containing an additional supply of boxes, the secondary plate comprising a recess bounded by edges at the front, so that the plate and the edges bound the additional supply at the rear and is intersected by the main plate and receives the main plate in its recess; and

controls of the clamp means and operating means and controls for the main plate, the controls being coordinated in such a way that once the additional supply has been provided, the operating means causes the secondary plate to slide longitudinally towards the main plate so as to move the additional supply of boxes closer together and to make it more compact, the clamp means of the rear carriage is actuated, the clamp means of the front carriage is deactivated and the main plate is moved into its second position, the secondary plate thereafter acting on both lines of boxes, the operating means continuing to move the main plate and secondary plate towards one another until the main plate reaches the secondary plate, the main plate then being returned to its first position, received in the recess in the secondary plate, the clamp means of the front carriage then being reactivated and the clamp means of the rear carriage deactivated and the operating means causing the carriages to slide apart.

Compl. specn. 18 pages

Drg. 4 sheets

Ind. CLASS : 70 C.

166188

Int. Cl.<sup>4</sup> : B01K 1/00.

MICROPROCESSOR BASED AUTOMATED CONTROL UNIT FOR MONITORING MULTI ELECTROCHEMICAL PROTECTION SYSTEM.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor(s) : KRISHNASWAMY BALAKRISHNAN, NARAYANASWAMY KRITHVASAAN, SIVASWAMY BIRLASEKARAN, PALANI SUBRAMANIAN, RAMACHANDRA MEENAKSHISHINDARAM & GANESAN RADHAKRISHNAN.

Application for Patent No. 454/Del/86 filed on 22nd May, 1986.

Complete specification left on 23rd March, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 3 Claims

A microprocessor based automated control unit for monitoring and controlling the potential of multi electrochemical installations which comprises :

a microprocessor unit (1);

the output of the microprocessor unit being connected to a buffer stage (7) for sequentially sensing the potential developed in the installation through individual sensor;

the output of the buffer stage being connected to the sensors of the installations which are to be protected;

the cathode/anode of the said installation being connected to a power source (10);

the power source being connected to the input of the said microprocessor unit through a trigger circuitry (2);

the power source being directly connected to the microprocessor unit for the continuous operation of the microprocessor the buffer stage (7) being provided with two digital panel meters—one (8) for displaying the preset potential and the other (9) for displaying the potential of the installation and an annunciator (11) connected to the microprocessor unit for visual display of under/over protection.

Provisional specn. 4 pages

Drg. 1 sheet

Compl specn 8 pages

Drg. 1 sheet

Ind. CLASS : 98 D &amp; E

166189

Int. Cl.<sup>4</sup> : F24C 3/00.

A GAS LAMP LIGHTED BY AN ELECTRONIC LIGHTER.

Applicant & Inventor : GOPI KISHAN KARRA, AN INDIAN NATIONAL OF NO. S-466, GREATER KAILASH, PART-1, NEW DELHI-110048, INDIA.

Application for Patent No. 457/Del/86 filed on 26th May, 1986.

Complete specification left on 24th July, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

A gas lamp which can be lighted by an electronic lighter, comprising :

- a top mantle holder for holding mantle;
- an electrode supporting the top mantle holder;
- a lower mantle holder formed by upper end of a pipe to which a combustible gas is supplied, and a cap shaped member having a plurality of fine holes supported by upper open end of said pipe;
- the lower end of the upper mantle holder being spaced above said cap shaped member to provide a gap therebetween for producing sparking therein;
- live terminal of an electronic lighter connected to said electrode and the other terminal of the electronic lighter being connected to metal body of the lamp.

Provisional specification 3 pages.

Compl. specn. 9 pages

Drg. 1 sheet

CLASS : 143 D<sub>2</sub>.

166190

Int. Cl. : B 65 B 5/00.

**"FILLING MACHINE FOR FILLING OF VALVE BAGS".**

Applicant : HAVER & DOECKER, OF CARL HAVER-PLATZ, 4740 OELDE, WEST GERMANY.

Inventor : BERNHARD ALLENDROF.

Application for Patent No. 615/Del/86 filed on 11th July, 1986.

Appropriate officer for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

## 15 Claims

Filling machine for filling of valve bags, the machine having a rotatably drivable packing sil fitted with filling nozzles for filling of the valve bags distributed around the circumference at a lower discharge end of the machine, characterised in that the packing silo (1) has a plurality of annular chambers (4 and 5) located one within another in an upper section (1a) of the silo (1), said upper section (1a) forming an inlet for filling material, a separate inlet nozzle (10 and 11) connected to each said chamber (4 or 5) so that various filling materials are separately feedable through respective said inlet nozzles (10 and 11) to said chambers (4 to 5), said annular chambers (4 and 5) being connected by separate ducts (4a and 5a) to one or more filling nozzles (2) whereby the filling materials are routed separately through the machine.

Compl. specn. 13 pages.

Drgs. 3 sheets

CLASS : 61-I;H.

166191

Int. Cl. : D 21 f 5/00.

**DRYER DIFFERENTIAL PRESSURE CONTROLLER.**

Applicant : BELOIT CORPORATION, OF P. O. BOX 350, BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventors : 1. GREGORY LYNN WEDEL, 2. STANLEY PETER GARVIN, JR., 3. ROBERT CASIMIR FOSTER.

Application No. 46/Cal/1987 filed January 14, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A control apparatus for controlling the differential pressure between a steam inlet line and an outlet line of a web dryer, said apparatus comprising in combination :

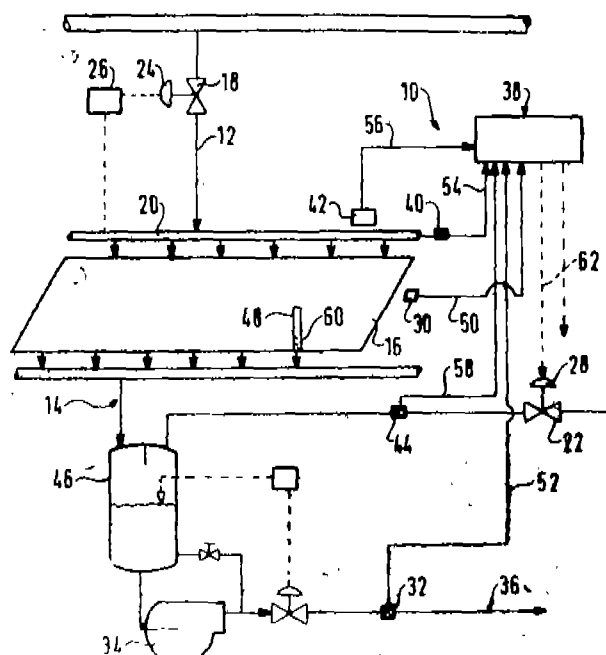
- a selectively controlling outlet valve disposed within the outlet line of the dryer for selectively controlling the flow of steam, condensate and non-condensable gases out of the dryer;

Outlet valve actuating means disposed adjacent to said outlet valve for selectively controlling the operation of said outlet valve between a fully open and a fully closed setting thereof;

speed sensing means disposed adjacent to the dryer for sensing the rotational speed of the dryer and for generating a first control signal proportional to said sensed rotational speed of the dryer;

rate of condensation sensing means for sensing the rate at which a layer of condensate builds up within the dryer and for generating a second control signal proportional to said sensed rate of build up; and

control means operably connected to said outlet actuating means for selectively energizing said actuating means in response to said control signals generated respectively by said speed sensing means and said rate of condensation sensing means such that the control means compares said signals from said speed sensing means and said rate of condensation sensing means to determine the optimum relative setting of the outlet valve so that flooding of the dryer with condensate is inhibited while the differential pressure between the inlet and outlet lines is maintained as low as possible



Compl. specn. 26 pages.

Drgs. 4 sheets

CLASS : 32-F<sub>2</sub>C; 55-E<sub>2</sub>

166192

Int. Cl. : A 61 k 45/00; C 07 c 87/08.

**METHOD OF PREPARING METHYLAMINE GAS DISSOLVED IN WATER .**

Applicant & Inventor : SATYA RANJAN DAS, OF 23/2A/4, MOOR AVENUE, CALCUTTA-700040, WEST BENGAL, INDIA.

Application No. 92/Cal/1987 filed June 30, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

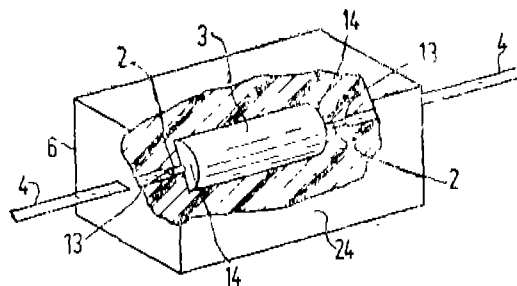
**7 Claims**

A method of preparing methylamine gas dissolved in water and contained in an enclosed container, the methylamine gas being capable of being inhaled, as and when needed, through an opening provided in the container, said method comprising mixing a fatty substance such as herein described, and a proteinous substance such as herein described in the ratio of substantially 2:1 by weight, suspending the said mixture in water, and keeping the suspension in the enclosed container for a prolonged period such as herein described so as to allow the same to undergo putrefaction and to yield methylamine gas dissolved in water.

Compl. specn. 9 pages.

Drg. Nil

a hardened molding compound of encasing and electrically insulating and thermally conducting material surrounding and completely embedding the electrical component with axial leads of conventional design from a point on the ribbon shaped portion of one lead to a corresponding point on the other lead to form a second body with opposite ends and having at least two opposing flat and coparallel surfaces other than the ends, a portion of the ribbon shaped lead exiting from each of the ends of the second body and providing approximately coplarily therefrom, said molding compound providing rigid structural support for the transition points of said leads.



Compl. specn. 15 pages.

Drg. 1 sheet

CLASS : 31-A, B, C.

166193

Int. Cl. : H 05 k 13/00.

**A SURFACE-MOUNTED ELECTRICAL DEVICE WITH AXIAL LEADS.**

Applicant : NORTH AMERICAN PHILIPS CORPORATION, 100E 42ND STREET, NEW YORK, N.Y. 10017, U.S.A.

Inventors : (1) THEODORE STANLEY PRYST; (2) JOHN GEORGE KIRSCHNER.

Application No. 385/Cal/1987 filed May 14, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**9 Claims**

A surface-mounted electrical device with axial leads, characterized in that the device comprises :

an electrical component with axial leads of conventional design having a first body with opposite ends;

a pair of electrical leads exiting from the opposite ends of the first body and extending axially outwardly therefrom;

each of said leads having a circular cross section along its length from its point of exit from the body to a transition point, and having a ribbon shape along its length thereafter, with the ribbon portion of each lead being approximately co-planar; and

CLASS :

166194

Int. Cl. : B 60 s 13/00.

**APPARATUS FOR RECTIFYING BODIES OF MOTOR VEHICLES.**

Applicant : AUTROBOT FINLAND KY, YRITTAINTIE 23, 70150 KUOPIO, FINLAND.

Inventor : OLAVI VENALAINEN.

Application No. 424/Cal/1987 filed May 28, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

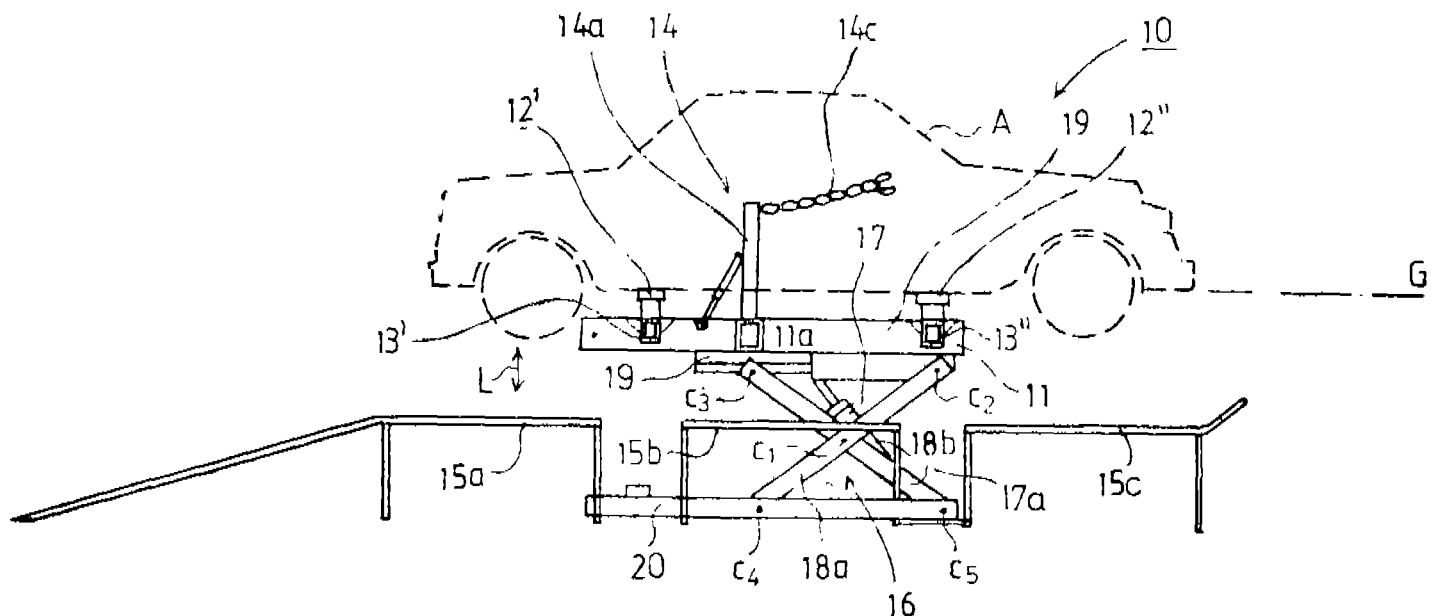
An apparatus for rectifying bodies of motor vehicles comprising :

at least one rectifying table (11) with skirt attachments (12) for fixing the vehicle or equivalent to the rectifying table (11) for the rectifying work;

characterized in that the apparatus comprises a lifting means (16) functionally connecting with the rectifying table (11) and which is movable in under the recti-

lying table (11) and away from there, and said apparatus further comprising supporting legs (30) connecting with the rectifying table (11);

the rectifying table (11) being disposed when the lifting means (16) has been moved away from under the rectifying table to rest on said supporting legs (30).



Compl. specn. 12 pages.

Drgs. 3 sheets

Int. Cl. : B 60 g 5/00.

166195

#### IMPROVED TANDEM-AXLE WALKING BEAM SUSPENSION.

Applicant : THE BOLER COMPANY, AT 500 PARK BOULEVARD, SUITE 1010, ITASCA, ILLINOIS 60143, U.S.A.

Inventors : (1) ROGER DENNIS JABLE, (2) JAMES BLAKELY TAYLOR.

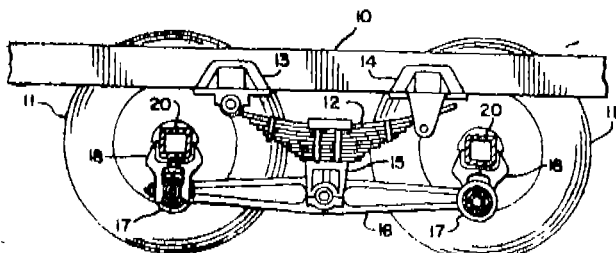
Application No. 463/Cal/1987 filed June 15, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

An improved tandem-axle walking beam suspension including a pair of fore-and-aft walking beams extending between the ends of said housings with each said beam having a bushing—receiving eye at its opposite ends, an axle bracket mounted on each of the ends of said axle housings, a bushing in each said bushing—receiving eye, and means interconnecting each of said bushings and the axle bracket juxtaposed thereto;

the improvement wherein, is that each said axle bracket has a pair of arms which straddle the bushing—receiving eye juxtaposed thereto with the distal end of each said arm being bifurcated into a pair fore-and-aft branches, each said bushing having a core the opposite ends project into the spaces between a juxtaposed pair of said fore-and-aft branches, and removable fastener means interconnecting each end of each said bushing core with the pair of said fore-and-aft branches juxtaposed thereto.



Compl. specn. 8 pages

Drg. 2 sheets

CLASS 116-H.

166196

Int. Cl. : B 66 d 1/40.

#### AUTOMATIC CONTROL SYSTEM FOR OPERATING INHAUL AND OUTHAUL WINCHES.

Applicant : HAGGLUNDS DENSON CORPORATION, 1220 DUBLIN ROAD, COLUMBUS, OHIO 43216, U.S.A.

Inventors : (1) RUDOLF U. SCHARTE, (2) WALTER E. MORTON.

Application No. 497/Cal/1987 filed June 24, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 17 Claims

An automatic control system for operating inhaul and outhaul winches which are responsive to an automatic transfer control output and which serve as drives for hauling in and paying out inhaul and outhaul which transfer cables are employed in ship to ship transfer of a load wherein sensors are utilized for deriving inhaul and outhaul winch cable position signal inputs and inhaul and outhaul winch cable velocity signal inputs and wherein said automatic control system operates in a landing mode to drive said load at a select landing velocity when said load is within a set distance from a ship and operates in a transfer mode to drive said load at a select transfer velocity when said load is beyond said set distance comprising :

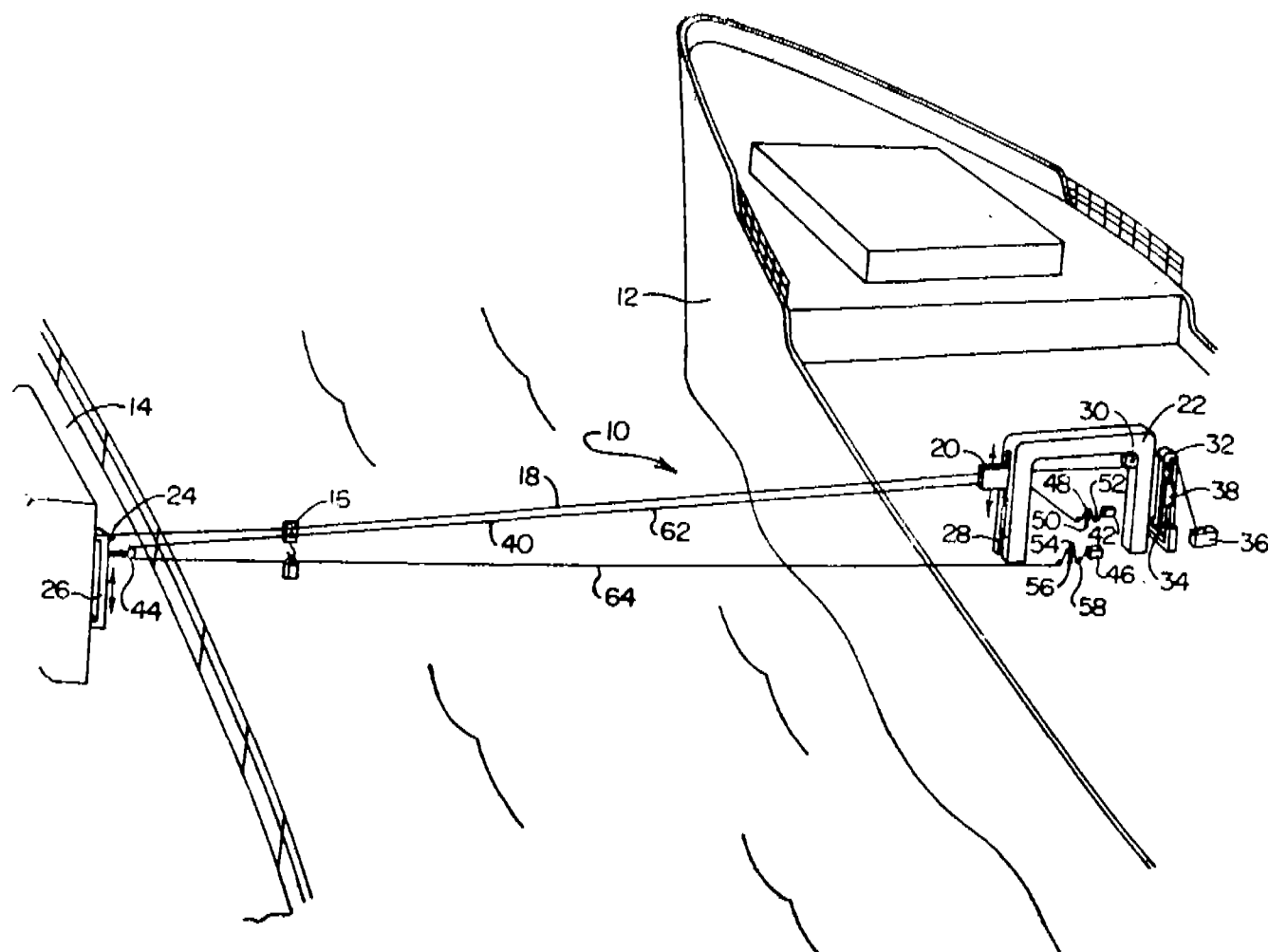
first adjustment means for deriving select haul in and payout transfer velocity signal inputs;

second adjustment means for deriving a select landing velocity signal input;

transfer velocity control means responsive to said cable position signal inputs and said landing velocity signal input for deriving a distance responsive transfer velocity signal input; and

transfer control means responsive to said cable velocity signal inputs, said select haul in and payout transfer velocity signal inputs, and said distance responsive transfer velocity signal inputs to derive a variable automatic transfer control output which causes said

inhaul and outhaul winches to adjust the velocity of said inhaul and said outhaul winch transfer cables such that the velocity of said load between said select transfer velocity and said select landing velocity changes at a constant rate with respect to distance.



Compl. specn. 129 pages.

Drgs. 19 sheets

CLASS : 32-F<sub>8a</sub>

166197

Int. Cl. : C 07 c 151/00.

PROCESS FOR THE PREPARATION OF 3-(ALKYL-THIO) ALDEHYDES.

Applicant : PENNWALT CORPORATION, THREE PARKWAY, PHILADELPHIA, PENNSYLVANIA 19102, UNITED STATES OF AMERICA.

Inventors : STANLEY R. SANDLER.

Application No. 610/Cal/1987 filed August 05, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

A process for the preparation of 3-(C<sub>3</sub>-C<sub>12</sub> alkyl-thio) C<sub>3</sub>-C<sub>10</sub> aldehydes which comprises reacting at a temperature within the range of 0 to 100°C a C<sub>3</sub>-C<sub>12</sub> alkyl mercaptan with a C<sub>3</sub>-C<sub>10</sub> α,β-unsaturated aliphatic aldehyde in the presence

of a catalytic amount of ion exchange resin having polyamine functionality and being in the free base form such as herein described.

Compl. specn. 13 pages.

Drg. Nil

CLASS : 155-B, E.

166198

Int. Cl. : B 29 d 7/00.

METHOD FOR MANUFACTURING A WEB OF PLASTIC TURF FOR SPORTS GROUNDS.

Applicant : J. F. ADOLFF AG, OF EUGEN-ADOLFF-STRASSE 120, 7150 BACKNANG, WEST GERMANY.

Inventors : HANS-JOACHIM FRIEDICH.

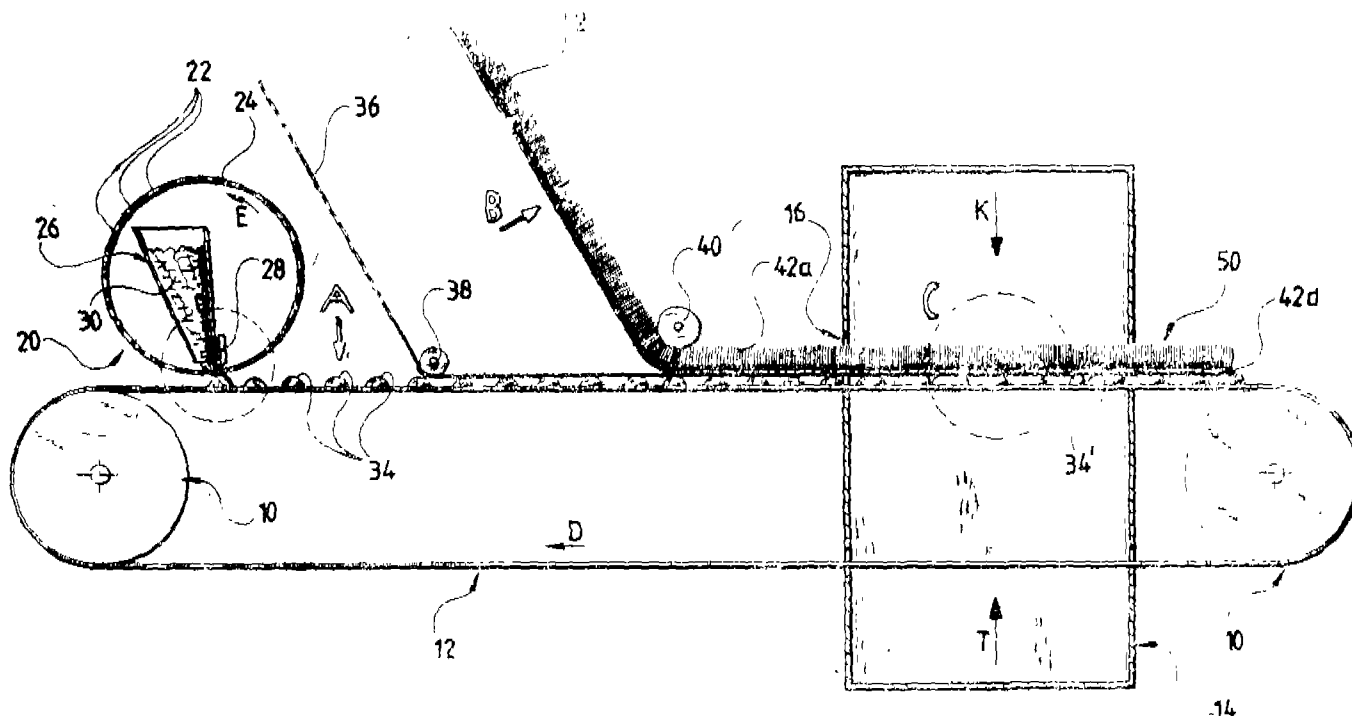
Application No. 32/Cal/1988 filed January 14, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

A method for manufacturing a web of synthetic turf for sports grounds having a web of pile fabric forming the upper side and elastomeric cushion elements attached in grating-type configuration to its underside, wherein plastic agglomerates corresponding to the cushion elements are produced from a quantitatively regulatable plastics material and deposited in grating-type configuration, and the plastics material is then converted by heat treatment into the cushion elements and during this is firmly bonded to the web of pile fabric,

wherein the web of pile fabric, the plastic agglomerates and a reinforcement web with openings therein are deposited on an endless conveyor belt, the reinforcement web being placed between the underside of the web of pile fabric and the plastic agglomerates wherein the plastics material penetrates the openings in the reinforcement web and wetting the underside of the web of pile fabric, the plastics material being then heated whereby the web of pile fabric, the reinforcement web and the cushion elements are thereby firmly bonded to one another.



Compl. specn. 20 pages

Drgs. 4 sheets

CLASS : 55-E.

166199

Int. Cl. : A 61 K 35/00.

IMPROVEMENTS IN OR RELATING TO VEGETAL ORAL CONTRACEPTIVE.

Applicant : MRS. KRISHNA DAS AND TUSHAR KANTI DAS, 8, JAHURI BAZAR, BURDWAN 723104, DIST. BURDWAN, WEST BENGAL, INDIA.

Inventor : PHATIC CHANDRA DAS.

Application No. 576/Cal/1988 filed July 08, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A process of preparing an orally administrable pharmaceutically acceptable long acting vegetal oral contraceptive composition for women which comprises mixing Embellia ribes dry extract (40%), Piper longum dry extract (20%), Daucus Carota dry (25%), Abrus precatorius oil (10%) and Borax (5%), the percentages are all by weight.

Compl. Specn. 6 Pages.

Drgs. Nil.

CLASS : 55-D<sub>2</sub>

166200

Int. Cl. : A 01 n 3/00.

PROCESS FOR PREPARATION OF NEVAL DETOXIFYING COMPOSITION CONTAINING CHELATES.

Applicant : DR. NIHARENDU BIKAS SINHA, 7-SAMBHU CHATTERJEE STREET, CALCUTTA-7, INDIA.

Inventor : DR. NIHARENDU BIKAS SINHA.

Application No. 568/Cal/88 filed July 06, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim

A method of preparation of a synergistic detoxifying composition containing chelates comprising :

- (1) Na<sub>2</sub>NTA (Disodium Nitrilotriacetate)-10-25% by weight :
- (2) Na<sub>2</sub>DCTA (Disodium 1, 2-Diamino Cyclohexano N-N-N-N (tetraacetate)-10-30% by weight :



(3)  $\text{Na}_2\text{EDTA}$  (Disodium Ethylene Diamine tetraacetate) 10-30% by weight:

(4)  $\text{Na}_2\text{DTPA}$  (Disodium Diethylene Triamine Pentacetate) -5-15% by weight. Characterised in that said components are mixed in micronised form having particle size 100—200  $\mu\text{m}$ .

Compl. Specn. 11 Pages

Drgs. Nil

#### Registration of Designs

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 161149. Shriram Refrigeration Industries Limited, an Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110 001. "Suction muffler assembly". 5th July, 1989.

Class 1. No. 161155. Shriram Refrigeration Industries Limited, an Indian Company, 19-Kasturba Gandhi Marg, New Delhi-110 001, India. "Cylinder Head". 5th July, 1989.

Class 1. No. 161159. Shriram Refrigeration Industries Gnadhi Marg, New Delhi-110 001, India. "Crank case". 5th July, 1989.

Class 1. No. 161298. Flagtime, Inc., a Corporation organized and existing under the laws of the State of Delaware, United States of America, of 312 East 30th Street, Penthouse West, New York, New York-10016, United States of America. "a watch". 16th August, 1989.

Class 1. No. 161300. Tinytop Appliances Private Limited, 144 Greams Road, Madras-600 006, Tamil Nadu, India, An Indian Private Limited, 144 Greams Road, Madras-600 006, Tamil Nadu, India. An Indian Private Limited Company. "Jet Pumps". 16th August, 1989.

Class 3. No. 161289. Jagatjit Industries Limited (Jil Plastic Division) An Indian Company, Ashoka Estate, 24-Barakhamba Road, New Delhi-110001, India, an Indian Company, "Bottle" 11 August, 1989.

Class 3. No. 161290. Jagatjit Industries Limited. (Jil Plastic Division) An Indian Company, Ashoka Estate, 24-Barakhamba Road, New Delhi-110001, India. An Indian Company, "Jar". 11th August, 1989.

Class 3. No. 161301. Tinytop Appliances Private Limited, 144-Greens Road, Madras-600 006, Tamil Nadu, India, an Indian Private Limited Company. "Jet Pumps". 16th August, 1989.

Class 3. No. 161302. Tinytop Alliances Private Limited, 144 Greams Road, Madras-600 006, Tamilnadu, India, An Indian Private Limited Company. "Diffuser for Centrifugal Pumps". 16th August, 1989.

Class 3. Nos. 161310 to 161312. Reva Process Engravers. Reva Estate, Near Sadhana Soap, S.V. Road, Oshiwara Bridge, Jogeshwari (W), Bombay-400 102, Maharashtra, India, an Indian Partner ship firm. "Container". 18th August, 1989.

Class 3. No. 161313. M/s. Pet Plastics, 117/118, Shivkrupa Industrial Estate, L. B. Shastri Marg, Vikhroli (West), Bombay-400 083, State of Maharashtra, India, an Indian partnership firm. "Bottle". 18th August, 1989.

Class 3. No. 161320. Indian Institute of Science, of Bangalore-560012, Karnataka, India, an Indian Institution. "Hand Held Terminal for data Lodging". 18th August, 1989.

Class 3. No. 161321. Indian Institute of Science, of Bangalore-560012, Karnataka, India, an Indian Institution. "Circuit Continuity Tester". 18th August, 1989.

Class 3. No. 161339. Reckitt & Colman of India Ltd., of 41, Chowringhee Road, Calcutta-700071, West Bengal, India a Company incorporated in India. "Toothbrush". 25th August, 1989.

Class 3. No. 161340. Reckitt & Colman of India Ltd., of 41, Chowringhee Road, Calcutta-700071, West Bengal, India, a Company incorporated in India. "Toothbrush" 25th August, 1989.

Class 3. No. 161348. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-4, Maharashtra, India, an Indian Partnership firm. "Tray Set". 30th August, 1989.

Class 3. No. 161377. Abdul Aziz, an adult, Indian Nationality, carrying on business as proprietor of Multi Products (India) at 1/11C, Muzzafarabad Hall, Proctor Road (Grant Road East), Bombay-400 007, Maharashtra, India. "Electric Fitting of Fourway (regular)". 8th September, 1989.

Class 3. No. 161392. Abdul Aziz, an adult, Indian Nationality carrying on business as Proprietor of Multi Products (India) at 1/11C, Muzzafarabad Hall, Proctor Road (Grant Road East), Bombay-400 007, Maharashtra, India. "Electric Fitting for Square Box". 8th September, 1989.

Class 3. No. 161398. Abdul Aziz, an adult, Indian Nationality, carrying on business as Proprietor of Multi Products (India) at 1/11C, Muzzafarabad Hall, Proctor Road (Grant Road East), Bombay-400 007, Maharashtra, India. "External Angle for Electric Fitting(Small)". 8th September, 1989.

Class 4. Nos. 161329 & 161330. HMM Limited, an Indian Company of Patiala Road, Nabha-147201, Punjab, India. "Bottle". 22nd August, 1989.

Class 12. Nos. 161275 & 161276. Wajidsons Exports, an Indian Partnership firm of Prince Road, Wajid Nagar, P.O. Box No. 79, Moradabad-244001, Uttar Pradesh, India. "Gunny Bag". 8th August, 1989.

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